

Digital Financial Reporting Principles

Common Sense Insights for Representing Financial Information Using XBRL

A resource for external financial reporting managers, accountants, internal auditors, external auditors, financial analysts, regulators, and other business professionals when creating, reviewing, auditing, analysing, or using XBRL-based digital financial reports such as SEC XBRL financial filings

by Charles Hoffman, CPA

DRAFT of 2014-07-15

“Quality means doing it right when no one is looking.” – Henry Ford.



About the authors:

Charles Hoffman, CPA, is credited as being the *Father of XBRL*. He started his public accounting career as an auditor with the international firm then called Price Waterhouse, served various roles in industry and public accounting for over 25 years, and has worked with XBRL since its introduction by the AICPA in 1998. In 2006, he received the AICPA Special Recognition Award for his pioneering role in developing XBRL. He has authored numerous publications including *XBRL for Dummies*, a number of *Journal of Accountancy* articles, writes a blog relating to XBRL, and contributed to a number of XBRL related technical specification and best practices documents. Currently, Charlie works as a consultant to CPAs and software vendors who want to better understand the subtle details of this new digital medium.

Charlie was co-editor of the first ever US GAAP XBRL taxonomy, contributor to the *XBRL 2.1 Specification* and the *XBRL Dimensions* specification, editor of the *Financial Reporting Taxonomy Architecture* and *Financial Reporting Instance Standards*, co-author of the *US GAAP Taxonomy Architecture*, part of the project team which created the *US GAAP Taxonomy*, and a major contributor to the IFRS XBRL taxonomy for a five year period, and consultant to numerous other XBRL taxonomy projects.

Charlie is a consultant to accountants and software vendors who work with digital financial reports. He authors the blog *Digital Financial Reporting* which can be found at <http://xbrl.squarespace.com/>.



Table of Contents

Introduction 5

- 1.1. Information based on evidence from comprehensive analysis of numerous SEC XBRL financial filings 5
- 1.2. Considering both the forest and the trees that make up the forest 5
- 1.3. Understanding key terminology of a digital financial report 6
- 1.4. Avoid creating a guessing game 7
- 1.5. Understand that the mechanics and process of digital financial reporting is an accountant's responsibility 8
- 1.6. Understand risks and risk mitigation verification tasks 9
- 1.7. Digital representations versus reality 10
- 1.8. Feedback is encouraged 12

2. Summary of Common Sense Principles 13

- 2.1. Recognize that the goal is the meaningful exchange of information, readable by both humans and machines. 14
- 2.2. Meaningful exchange requires prior existence of agreed upon syntax, semantics, and workflow/process rules. 15
- 2.3. Recognize that even if SEC filing rules and the US GAAP XBRL Taxonomy may allow for ambiguity; approaches do exist where SEC filings rules can be followed and information is consistent, explicit and unambiguous. 18
- 2.4. Recognize that being explicit contributes to the unambiguous interpretation of reported information. 19
- 2.5. Strive for consistency 20
- 2.6. Recognize the difference between presentation and representation. 20
- 2.7. Recognize that a financial report should be a true and fair representation. 21
- 2.8. Recognize that financial reports contain a discrete set of report elements which have specific properties and relations. 21
- 2.9. Recognize that report elements can be categorized into common groups which have common relevant properties. 22



2.10. Recognize that each category of report elements has allowed and disallowed relations.	25
2.11. Recognize that financial reports contain a discrete set of financial report component which can be categorized.	25
2.12. Recognize and respect relations between Level 3 [Text Block]s and Level 4 Detail disclosures.	26
2.13. Recognize the existence of and properly respect and represent intersections between report components.	30
2.14. Recognize and respect fundamental accounting concepts and unchangeable relations between those accounting concepts	32
2.15. Recognize and respect common report component arrangement patterns.	34
2.16. Recognize and respect common concept arrangement patterns which indicate how a set of Concepts are organized within a [Line Items].	35
2.17. Recognize and respect common member arrangement patterns.	36
2.18. Avoid mixing or run-together concept arrangement patterns.	37
2.19. Avoid mixing distinct characteristics and concepts.	39
2.20. Recognize need for both automated and manual verification processes.	40
2.21. Recognize that concepts cannot be moved between fundamental accounting concept categories.	43
2.22. Avoid unknowingly changing information representation approach midstream.	46
2.23. Avoid inconsistencies in network identification.	48
2.24. Recognize that characteristics apply to all reported facts within a report component.	48
2.25. Recognize that rendering engines render presentation differently but the meaning is the same across all rendering engines.	49
2.26. Number of members in reported set does not change the characteristics of a reported fact.	50
2.27. Label networks with meaningful information.	51



Introduction

Whether you are an external financial reporting manager responsible for the creation of an SEC XBRL financial filing, someone on the team reviewing that filing, an internal auditor reviewing the filing, a third-party auditor providing agreed upon procedures to review the preparation of that digital financial report; if you don't have a proper comprehensive framework for checking your work you could: (a) perform steps which do not contribute to the true and fair representation of the financial information reported, (b) neglect to perform required steps necessary to prove to yourself that the information is a true and fair representation, (c) be unaware of exactly what you are communicating within your digital financial report.

This document summarizes a set of common sense insights which have been distilled down to a handful of principles which apply to all digital financial reports. The principles apply to every financial report, every component which makes up that report, reported facts and characteristics of reported facts, and relations between those reported facts. These principles establish a framework so that unnecessary work is not performed and that all required steps are performed.

1.1. Information based on evidence from comprehensive analysis of numerous SEC XBRL financial filings

Looking at individual SEC XBRL financial filings is helpful. Looking across many, many SEC XBRL financial filings with a focus on one specific thing is likewise beneficial. Carefully and consciously comparing and contrasting many SEC XBRL financial filings helps one build a mosaic, increasing ones understanding even more. This helps one see and understand important and insightful patterns.

Contributing to assessing the information in this document is a thorough, comprehensive analysis¹² of 6,674 SEC XBRL financial filings, all detail-tagged 10-K filings submitted to the SEC between March 1, 2013 and February 28, 2014.

While the analysis is of SEC XBRL financial filings, this information and these principles applies to virtually all digital financial reports or digital business reports. You can ignore the handful of items which are specific to SEC XBRL financial filings.

1.2. Considering both the forest and the trees that make up the forest

When working with digital financial reports, it has been my observation that people working with such reports forget about the "forest" into which the "trees" fit. In fact, most people are more focused on the "leaves on the branches of the trees". This information focuses on trying to help readers understand the forest by looking at the individual trees which make up the forest. Further, this is not an analysis of how to represent specific accounting disclosures within a digital financial report. Rather, these principles are qualities which every financial and nonfinancial disclosure contained within a digital financial report possess.

¹ *Arriving at Digital Financial Reporting All Stars: Summary Information*, http://www.xbrlsite.com/2014/Library/AnalysisSummary_ArrivingAtDigitalFinancialReportingAllStars.pdf

² *Understanding the Minimum Processing Tests*, <http://www.xbrlsite.com/2014/Library/UnderstandingMinimumProcessSteps-2014-02-14.pdf>



While it is useful to examine individual SEC XBRL financial filings, the vast majority of useful information comes from comparing and contrasting how different SEC XBRL financial filers approached reporting their disclosures. What provides the best information are patterns which are observed within such digital financial reports.

If you understand the role that patterns play in the creation of software then you will have an even greater appreciation for these principles. While this information is very helpful to accountants, it is likewise helpful to software vendors who endeavour to build software helpful to accountants who need to create quality digital financial reports such as SEC XBRL financial filings.

1.3. *Understanding key terminology of a digital financial report*

The following terminology sets a foundation for discussing these principles. These terms explain the framework within which all work to create or review a digital financial report³ is performed. This terminology was first introduced by the *Financial Report Semantics and Dynamics Theory*⁴ which derived these terms. This terminology is intended to have very precise definitions in order to enable precise communication:

- **Financial report:** Report which communicates financial and nonfinancial information to users of that report. Financial reports contain facts, characteristics which describe those facts, parenthetical explanations of facts, relations between facts.
- **Report component:** A report component is a set of facts which go together (tend to be cohesive and share a certain common nature) for some specific purpose within a financial report. For example, a "balance sheet" is a component. The "Maturities of long-term debt" disclosure is a component.
- **Fact:** A fact is reported. A fact defines a single, observable, reportable piece of information contained within a financial report, or fact value, contextualized for unambiguous interpretation or analysis by one or more distinguishing characteristics.
- **Characteristic:** A characteristic describes a fact. A characteristic or distinguishing aspect provides information necessary to describe a fact or distinguish one fact from another fact. A fact may have one or many distinguishing characteristics.
- **Parenthetical explanation:** Facts may have parenthetical explanations which provide additional descriptive information about the fact.
- **Relation:** A relation⁵ is some interaction between the pieces which make up a financial report. Report components can be related to other report components. Reported facts can be related to other reported facts. Characteristics can be related to other characteristics. Business rules are a type of relation which describes computation type and logic-based relations.

³ *Digital financial reporting harnesses computers for speed, accuracy*, <http://searchfinancialapplications.techtarget.com/opinion/Digital-financial-reporting-harnesses-computers-for-speed-accuracy>

⁴ See *Financial Report Semantics and Dynamics Theory*: <http://xbrl.squarespace.com/fin-report-sem-dyn-theory/>

⁵ *A Taxonomy of Part-Whole Relations*: <http://csjarchive.cogsci.rpi.edu/1987v11/i04/p0417p0444/MAIN.PDF>



- **Property:** A property is a trait, quality, feature, attribute, or peculiarity which is used to define its possessor and is therefore dependent on the possessor. A property belongs to something. For example, the color of a ball belongs to and is therefore is dependent on (is a property of) the ball. Financial reports have a set of properties. Components have a set of properties. Facts have a set of properties. Characteristics have a set of properties. Parenthetical explanations have a set of properties. Relations have a set of properties.

HINT: This video walks you through this foundational terminology: http://www.youtube.com/watch?v=uC-hrpxJ_fA.

1.4. *Avoid creating a guessing game*

Prudence dictates that using financial information in SEC XBRL financial filings should not be a guessing game. Safe, reliable, predictable, automated reuse of reported financial information seems preferable.

Imagine if you had 100 different software applications which used 100 different software algorithms to unravel an income statement of a financial report. Why would software need to "unravel an income statement"? Well, because the US GAAP XBRL Taxonomy and/or SEC Edgar Filer Manual (EFM) don't force the information into a state where the information doesn't need to be unravelled; and because public companies which file with the SEC don't take it upon themselves to make their information straight-forward and easy for a machine to interpret.

That is the key: easy for a machine to interpret.

Humans are smart; machines such as computers are dumb. Computers only seem smart because humans meticulously constructed stuff to make the computers appear smart.

Humans can figure anything out. The question is, do you want to do what is necessary for a machine to figure out a financial statement so that you can leverage what the machine can provide you if the machine can figure out what you want it to figure out.

Do you want to be explicit? Or, do you want to be implicit and let software applications do their best to guess? Do you want to be unambiguous? Or, do you want to be ambiguous and let software guess? Do you want to be consistent? Or, do you want to be inconsistent and cause software more work?

This is about a choice. How to achieve the result is a slam dunk. The question is, do you want to do what is necessary to make things work reliably, predictably, repeatedly, consistently, effectively. Again, "Prudence dictates that using financial information in SEC XBRL financial filings should not be a guessing game." If using the information is a guessing game, the information will certainly not be reliable.

There are advantages if automated reuse worked correctly. If you want those advantages, certain things need to be done to create order from the disorder. Order must be created. If you don't create order, disorder is the de facto result.



1.5. Understand that the mechanics and process of digital financial reporting is an accountant's responsibility

The information reported within a digital financial report or set of digital financial or nonfinancial information is an identifiable, definitive, discrete set of reported facts. Those facts have an identifiable, definitive, discrete set of characteristics which distinguishes one fact from another fact. Those facts and characteristics have an identifiable, definitive, discrete set of relations. Those facts and characteristics have an identifiable, definitive, discrete set of properties. These attributes are a nature of the information itself.

While determining *what* must be reported and *how* it is reported can at times be subjective in nature and require significant professional judgment; once that judgment has been exercised and once the information is provided the facts, characteristics, relations, and properties of that reported information is in no way subjective and open to judgment or interpretation. They are simply facts. Those facts are objective. Those facts can be interpreted by a user of the facts as the user sees fit. But the facts themselves are objective.

Information which is ambiguous, illogical, irrational, or nonsensical is simply not useful.

All facts, characteristics, relations, and properties can be identified; they are physical objects which can be observed. The mechanics of the objects which comprise a financial report are not a mystery; rather, they tend to be well understood. However, thinking of the information in this manner is not something which business users have been trained to do. But, as these facts, characteristics, relations, and properties are related to the business domain, this training is relatively easy.

The specific technical rules of the underlying format of digital financial reports, the Extensible Business Reporting Language⁶ (XBRL) are specified and are clear. These rules are not mysterious, vague, or incomprehensible. They are intended to be unambiguous and generally not disputed.

Given the correct mapping between a technical syntax and these facts, characteristics, relations, and properties; the technical syntax can be separated from the business domain semantics. If properly implemented, software can work with the technical syntax and expose only the business domain semantics to the business user making use of that software. The business user works with the business domain semantics, not the technical syntax. Software manages the technical syntax.

Likewise in accounting there are universal truths which are not disputed. Financial reports have balance sheets. Balance sheets balance. Balance sheets report "assets" and "liabilities and equity". Assets = Liabilities and Equity⁷. Assets foot. Liabilities and equity foot. Net income (loss) foot. Cash flow statements report net cash flows. These are objective details which are not open to interpretation but rather follow the rules specified by generally accepted accounting principles and/or the XBRL technical specification.

Good software hides technical details of a digital financial report from business users. Good software understands and leverages basic rules of financial reporting.

⁶ Extensible Business Reporting Language (XBRL) 2.1, <http://www.xbrl.org/Specification/XBRL-RECOMMENDATION-2003-12-31+Corrected-Errata-2008-07-02.htm>

⁷ The accounting equation, http://en.wikipedia.org/wiki/Accounting_equation



If software does not hide technical details, then business users are still responsible for employing the technology appropriately and process details related to using the technology. Accountants are still responsible for understanding the mechanics and process of representing financial information using the XBRL format. If software accountants use to create digital financial reports does not hide details, accountants can either (a) get better software or (b) learn the technical details. What they cannot do is simply ignore the mechanics and process.

All report components, facts, characteristics, relations, and properties can be identified; they are physical objects which can be observed. The mechanics of the objects which comprise a financial report are not a mystery; rather, they tend to be well described by the XBRL technical specifications.

1.6. Understand risks and risk mitigation verification tasks

The objective of a general purpose financial report is to communicate information about some economic entity or accounting entity. The financial information provided should be a “true and fair representation” of the economic entity.

The risk and mitigation is independent of whether the verification task is performed by someone creating a digital financial report, an internal auditor, or a party which is or is not independent. Further, this set of risks is 100% comprehensive because it considers 100% of the business information contained within the digital financial report (reported facts, characteristics of those facts, parenthetical explanations of facts, relations, and all related properties). Technical syntax need not be considered when verifying report information.

Below is a summary of the risks which could lead to a financial report being invalid and the risk mitigation assertion or verification task which would assure that the risk goes unrealized.

Risk	Risk Mitigation Assertion (Verification task)
Full inclusion: All relevant facts, characteristics which describe facts, parenthetical explanations of facts, and relations between facts/characteristics are not included in the financial report.	Completeness: All relevant facts, characteristics of facts, parenthetical explanations of facts, and relations between facts/characteristics have been included within the financial report.
False inclusion: No facts, characteristics which describe facts, parenthetical explanations of facts, or relations between facts/characteristics which should not be included have been included.	Existence: No facts, characteristics which describe facts, parenthetical explanations of facts, relations between facts/characteristics are included within financial report which should not be included.
Inaccuracy: Property of a fact, characteristic, parenthetical explanation, component, or relation is inaccurate.	Accuracy: The properties of all facts, characteristics, components, parenthetical explanations, relations between facts/characteristics which are included in the financial report are accurate, correct, and complete.



Risk	Risk Mitigation Assertion (Verification task)
Infidelity: All facts, characteristics, parenthetical explanations, and relations considered as a whole do not possess the required fidelity when considered as a whole.	Fidelity: Considered as a whole; the facts, characteristics, parenthetical explanations, and relations between facts/characteristics properly reproduces the financial and nonfinancial facts, characteristics, and relations of the reporting entity and provide a true and fair representation of such financial information.
Integrity not intact: Integrity between facts and characteristics which comprise one report component is inconsistent with all other report components.	Integrity: Considered as a whole, the facts and characteristics which make up the components of a report are consistent throughout all components of the financial report. There are no internal inconsistencies.
Inconsistency: The facts, characteristics, parenthetical explanations, relations and their properties expressed are inconsistent with prior reporting periods or with peers of the reporting entity.	Consistency: The facts, characteristics, parenthetical explanations, relations between facts/characteristics, and their properties are consistent with prior periods and with the reporting entities peers, as is deemed appropriate. There are no inconsistencies with other prior period or peers.
Not presented fairly: The financial report is not presented fairly and are therefore not a true and fair representation of the reporting economic entity in accordance with the financial reporting framework applied.	True and fair representation: The financial report is a true and fair representation of the information of the reporting economic entity. (An auditor might say presented fairly, in all material respects, and provide a true and fair representation in accordance with the financial reporting framework applied.

The task of verification/validation of the risks above can be automated to the extent that (a) machine readable business rules can be created and (b) such rules have been created. If a machine readable business rule cannot be create or could be created but has not; then the verification/validation process must be performed manually.

Automated verification/validation processes are preferable to manual processes because automated processes are more reliable, take less time, and are less costly.

1.7. Digital representations versus reality

What is the purpose of a digital financial report such as SEC XBRL financial filing?

- **To define one absolute reality:** To arrive at someone absolute definition of "true and fair representation of financial information"?
- **To create a shared reality to achieve a specific purpose:** To arrive at a shared common enough view of "true and fair representation of financial information" such that most of our working purposes, so that reality does appear to be objective and stable. So that you can query information reliably, predictably, repeatedly, safely.

Many people seem to believe that the answer is one forced absolute reality is being thrust on them. That is why they tend to think that everything is involves judgment and that everything is subjective. But this is to miss the point. A shared view of reality which is clearly interpretable and understood created in order to achieve the



purpose of meaningfully exchanging information so that time is reduced, costs are reduced, and information quality improves for a financial report.

The goal is to arrive at some equilibrium, to balance the duality, to recognize that there is no singular objective reality but in spite of that, we **create a common enough shared reality to achieve some working purpose**. To make reality of the financial reporting domain appear to be objective and stable in certain specific and agreed upon ways in order to fulfill some higher purpose.

From what I can see, the accounting profession has yet to agree on the purpose and they have not successfully communicated that purpose to IT professionals because (a) they have not agreed on the purpose and (b) they don't even understand that they need to agree on and communicate that purpose so accountants have not taken the time to agree on or define that purpose.

The book *Data and Reality: A Timeless Perspective on Perceiving and Managing Information in Our Imprecise World, 3rd Edition*⁸, by William Kent, helps understand issues related to getting machines such as computers to work with information. This discusses the importance of understanding your purpose:

In addition, there is a question of purpose. Views can be reconciled with different degrees of success to serve different purposes. By reconciliation I mean a state in which the parties involved have negligible differences in that portion of their world views which is relevant to the purpose at hand. If an involved party holds multiple viewpoints, he may agree to use a particular one to serve the purpose at hand. Or he may be persuaded to modify his view, to serve that purpose.

If the purpose is to arrive at an absolute definition of truth and beauty, the chances of reconciliation are nil. But for the purposes of survival and the conduct of our daily lives (relatively narrow purposes), chances of reconciliation are necessarily high. I can buy food from the grocer, and ask a policeman to chase a burglar, without sharing these people's views of truth and beauty. It is an inevitable outcome of natural selection that those of us who have survived share, within a sufficiently localized community, a common view of certain basic staples of life. This is fundamental to any kind of social interaction.

If the purpose is to maintain the inventory records for a warehouse, the chances of reconciliation are again high. (How high? High enough to make the system workably acceptable to certain decision makers in management.) If the purpose is to consistently maintain the personnel, production, planning, sales, and customer data for a multi-national corporation, the chances of reconciliation are somewhat less: the purposes are broader, and there are more people's views involved.

So, at bottom, we come to this duality. In an absolute sense, there is no singular objective reality. But we can share a common enough view of it for most of our working purposes, so that reality does appear to be objective and stable.

But the chances of achieving such a shared view become poorer when we try to encompass broader purposes, and to involve more people. This is precisely why the question is becoming more relevant today: the thrust of technology

⁸ <http://www.amazon.com/Data-Reality-Perspective-Perceiving-Information/dp/1935504215>



is to foster interaction among greater numbers of people, and to integrate processes into monoliths serving wider and wider purposes. It is in this environment that discrepancies in fundamental assumptions will become increasingly exposed.

Digital financial reporting is a choice to safely, reliably, predictably, exchange financial information in both human readable and machine readable form with the purpose of saving the cost of creation, cost of rekeying information for analysis. This is achieved by automating here-to-for manual processes.

1.8. *Feedback is encouraged*

The information in this document is intended to be an accurate, high-quality resource. If you have any comments, suggestions, ideas, or other feedback; please send your feedback to CharlesHoffman@olywa.net. If you have a difference of opinion or better idea, please document your opinion or better idea and send that.



2. Summary of Common Sense Principles

The following is a summary of common sense principles which should be applied when creating or reviewing an SEC XBRL financial filing or other digital financial report.

These principles apply to every report component which discloses information. Again, this is not a cook book for representing specific accounting disclosures using the XBRL format. Every accounting disclosure benefits from these principles.

These principles are not religious dogma created to push toward one option or another where subjectivity is appropriate. These principles are logical, rational, and sensible ideas based on the observation and analysis of thousands of digital financial reports, what seems to work, and what does not work, and more importantly specifically why something does or does not work.

Each principle is explained, an example provided, visual examples are provide where helpful, as well as descriptive information where that is helpful. Many times both inappropriate approaches and improved approaches are shown so that they might be compared and contrasted so that specific differences can be understood.

Many times details are hard to explain with a simple narrative or screen shot. Comprehensive examples of each example are being created such that all details can be examined with the proper perspective so that all moving pieces at play can be examined for oneself. The comprehensive examples help to understand specific items of focus and other related pieces which impact the item of specific focus. You can find these examples here:

<http://www.xbrlsite.com/2013/DigitalFinancialReportingPrinciples/>

As mentioned, this is not a cookbook of accounting disclosures expressed using the XBRL format. Likely one day such a cookbook might be created. However there is a set of resources which tries to embody the principles outlined in this document. These resources can be helpful in understanding these principles. You can find these resources here:

- **Reporting templates:** this is a set of 75 common pieces of which might be included within an SEC XBRL financial filing which strives to follow these principles: <http://www.xbrlsite.com/2013/ReportingTemplates/2013-05-15/TemplateIndex/index.html>
- **SEC Reference implementation:** this is a prototype of an SEC XBRL financial filing which follows these principles and contains each of the patterns identified and described in this document: <http://www.xbrlsite.com/DigitalFinancialReporting/ReferenceImplementation/2013-05-15/>
- **SEC Comparison example:** this is in essence three versions of the reference implementation which is used to test ideas related to comparisons across SEC XBRL financial filings: http://www.xbrlsite.com/DigitalFinancialReporting/ReferenceImplementation/rdf_Compare.xml
- **Comparison of disclosures:** this is a set of comparisons of the SEC Level 3 [Text Block] level and SEC Level 4 detail disclosures:



<http://xbrl.squarespace.com/journal/2014/6/24/mind-boggling-diversity-of-sec-xbrl-financial-filings.html>

2.1. Recognize that the goal is the meaningful exchange of information, readable by both humans and machines.

Financial reports tell a story. That story is the same whether the information of that financial report is expressed on paper, electronically using HTML or PDF, or digitally using the XBRL technical format or some other machine readable format. Changing the medium which is used to communicate the information does not change the story the financial report conveys.

Creators and users of information conveyed in a financial report may interpret reported facts in different ways; however they must agree on the facts which have been reported. The meaning of the fact must be unambiguous.

Contrast this information:

Long-term Debt - Schedule of Debt Instruments (Details) (USD \$)	3 Months Ended	12 Months Ended				
	Jan. 28, 2012	Jan. 28, 2012	Jan. 29, 2011	Jan. 30, 2010	Feb. 02, 2008	Apr. 30, 2007
Debt Instrument [Line Items]						
Assets acquired through capital leases		\$ 2,883,000	\$ 0	\$ 0		
Long-term Debt, by Current and Noncurrent [Abstract]						
Total long-term debt principal	156,011,000	156,011,000	164,478,000			
Unamortized discount on 1.125% Senior Convertible Notes	(17,690,000)	(17,690,000)	(24,679,000)			
Long-term debt - carrying value	138,321,000	138,321,000	139,799,000			
Current portion	(4,682,000)	(4,682,000)	(11,449,000)			
Net long-term debt	133,639,000	133,639,000	128,350,000			
Debt Instrument, Convertible, Conversion Price (per share)	\$ 15.379	\$ 15.379				
Common stock price per share threshold to include the dilutive effect related to the warrants	\$ 21.607	\$ 21.607				
Purchase price of early repayment of 1.125% Senior Convertible Notes		0	38,260,000	50,633,000		
Gain on repurchases of 1.125% Senior Convertible Notes		0	1,907,000	13,979,000		
Dilutive Effect of Notes and Warrants First Dollar in Excess of Conversion Price (shares)	558,000	558,000				
Cumulative Dilutive Effect at Conversion Price After Issuance of Warrants and Options (shares)	2,633,000	2,633,000				
Cumulative Dilutive Effect of Notes and Warrants First Dollar in Excess of Conversion Price After Issuance of Warrants and Call Options (shares)	3,346,000	3,346,000				
Cumulative Dilutive Effect of Notes, Warrants and Call Options First Dollar in Excess of Conversion Price After Issuance of Warrants and Call Options (shares)	425,000	425,000				
Interest Expense, Debt [Abstract]						
Amortization of Debt Discount		6,989,000	7,332,000	9,885,000		
Cash payments for interest		4,904,000	5,879,000	6,655,000		
Stated interest rate	1.125%	1.125%				
Maturities of Long-term Debt [Abstract]						
Long-term Debt, Maturities, Repayments of Principal During Year Ended February 2, 2013	4,682,000	4,682,000				
Long-term Debt, Maturities, Repayments of Principal During Year Ended February 1, 2014	2,682,000	2,682,000				
Long-term Debt, Maturities, Repayments of Principal During Year Ended January 31, 2015	147,686,000	147,686,000				
Long-term Debt, Maturities, Repayments of Principal During Year Ended January 30, 2016	763,000	763,000				
Long-term Debt, Maturities, Repayments of Principal During Year Ended January 20, 2017	198,000	198,000				



To this information:

Slicers (applies to each fact value in each table cell)

Reporting Entity [Axis]	0000000001 (http://www.sec.gov/CIK)
Legal Entity [Axis]	Consolidated Entity [Domain]

Balance Sheet Parenthetical [Line Items]	Period [Axis]	
	2010-12-31	2009-12-31
Balance Sheet Parenthetical [Hierarchy]		
Accounts receivable, allowance	7,000,000	6,000,000

Preferred Stock Information, by Class [Line Items]	Period [Axis]					
	2010-12-31			2009-12-31		
	Class of Stock [Axis]			Class of Stock [Axis]		
	Class A Preferred Stock [Member]	Class B Preferred Stock [Member]	Class of Stock [Domain]	Class A Preferred Stock [Member]	Class B Preferred Stock [Member]	Class of Stock [Domain]
Class of Preferred Stock [Hierarchy]						
Preferred stock, par value per share	1	1		1	1	
Preferred stock, shares authorized	20,000	20,000		20,000	20,000	
Preferred stock, shares issued	20,000	20,000		20,000	20,000	
Preferred stock, shares outstanding	20,000	20,000		20,000	20,000	
Preferred stock, value outstanding	10,000,000	10,000,000	20,000,000	10,000,000	10,000,000	20,000,000

Common Stock Information, by Class [Line Items]	Period [Axis]					
	2010-12-31			2009-12-31		
	Class of Stock [Axis]			Class of Stock [Axis]		
	Class A Common Stock [Member]	Class B Common Stock [Member]	Class of Stock [Domain]	Class A Common Stock [Member]	Class B Common Stock [Member]	Class of Stock [Domain]
Class of Common Stock [Hierarchy]						
Common stock, par value per share	1	1		1	1	
Common stock, shares authorized	60,000	50,000		60,000	50,000	
Common stock, shares issued	50,000	40,000		50,000	40,000	
Common stock, shares outstanding	50,000	40,000		50,000	40,000	
Common stock, value outstanding	10,000,000	10,000,000	20,000,000	10,000,000	10,000,000	20,000,000

Which of the examples is easier to read? There are two things which make the first example hard to read. First, the rendering engine used to generate the first example does not show all information. For example, you cannot tell the CIK number or legal entity of the economic entity in the first example. Second, the organization of the representation of the information contributes to making it hard to understand. There are two things that contribute to a meaningful understanding: (a) the rendering engine and (b) the approach used to represent of the information (which is used by the rendering engine).

2.2. Meaningful exchange requires prior existence of agreed upon syntax, semantics⁹, and workflow/process rules.

A meaningful exchange of information can only occur to the extent that technical syntax rules, business domain semantic rules, and workflow/process rules have been defined. To the extent that these rules exist, information exchanged will have the quality of meaning for the information to be useful.

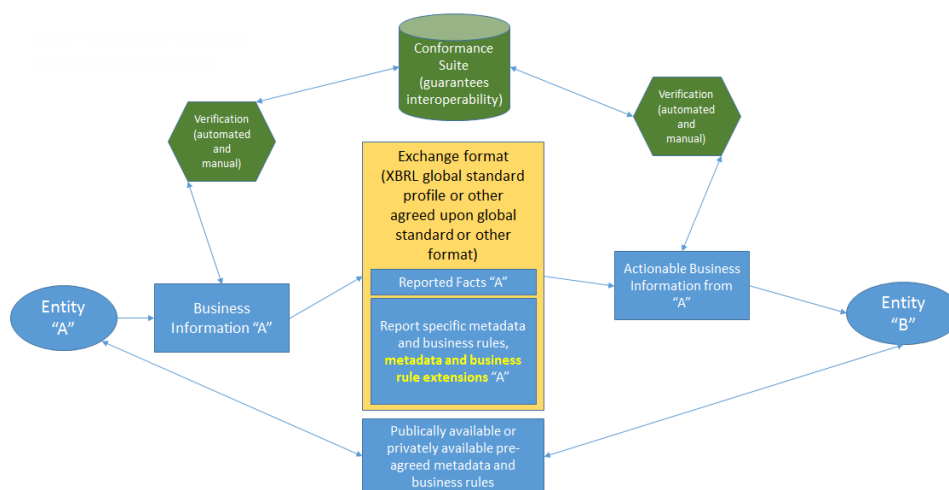
Rules are in essence a form of agreement. When humans are involved in interpreting information they can overcome a certain amount of ambiguity in communicated information. However, machines are less adept at overcoming ambiguity. If a rule is not explicitly specified and is open to interpretation, then a software developer must make a choice and decide how exactly to interpret that situation and therefore how a computer will react.

⁹ Differentiating the terms syntax and semantics is crucial. If you don't understand the difference between the terms syntax and semantics, please see the video here:

<http://xbrl.squarespace.com/journal/2010/6/1/differentiating-syntax-and-semantics.html>



Historically, such business rules have generally been hard coded into individual business systems by programmers. However, these rules can be created external to a system as metadata and managed by business users rather than the IT department. Standard business rules can be shared between systems. Commercially available business rules engines can process structured financial and nonfinancial information against publically or privately specified business rules.



The set of possible rules is endless. XBRL technical syntax rules and technical syntax interoperability are excellent with XBRL¹⁰. This is because of the XBRL technical syntax specification and software conformance suite. The conformance suite in particular is why the interoperability is excellent. The meaning at the XBRL syntax level is very good and therefore software interoperability at the syntax level is very good.

At the semantics level, we are not there yet but things are improving. There are more “formal” and “informal” approaches to expressing these semantic rules. The more formal the approach the more complicated things can get; but the higher the information quality because of the formalness. The less formal or informal, the easier things are but the lower the quality of information.

As mentioned above, a meaningful exchange of information can only occur to the extent that technical syntax rules, business domain semantic rules, and workflow/process rules have been defined. These rules must be shared with all business systems which create or consume information. To the extent that this is done, information will be meaningful and thus appropriate level of information quality will be achieved. It is the agreement on the rules which guarantees information quality per those rules. These rules should not be locked within individual business systems; rather they must be shared between business systems using a standard syntax.

Prudence dictates that using financial information in SEC XBRL financial filings should not be a guessing game.

Imagine if you had 100 different software applications which used 100 different software algorithms to unravel an income statement of a financial report. Why

¹⁰ <http://xbrl.squarespace.com/journal/2014/3/17/xbrl-technical-syntax-update-insights-obtained.html>



would software need to "unravel an income statement"? Well, because the US GAAP XBRL Taxonomy and/or SEC Edgar Filer Manual (EFM) don't force the information into a state where the information doesn't need to be unraveled; and because public companies which file with the SEC don't take it upon themselves to make their information straight-forward and easy for a machine to interpret.

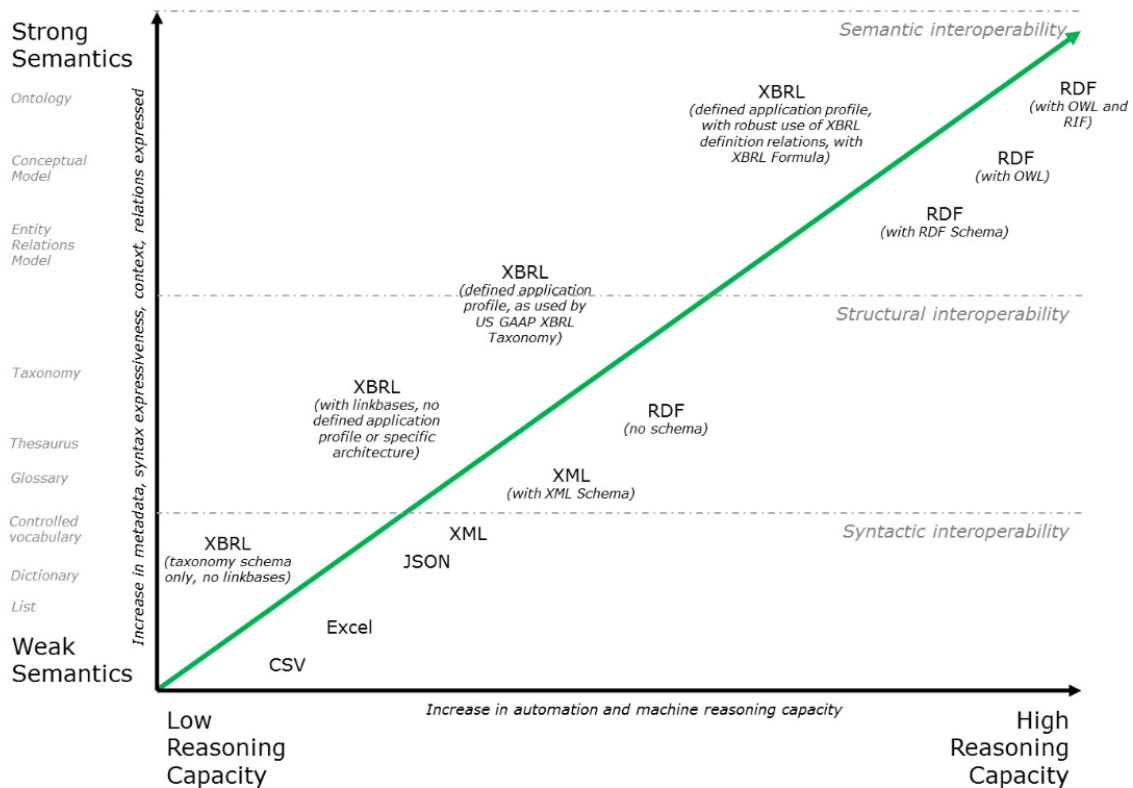
That is the key: easy for a machine to interpret. Machines need to understand what is being communicated.

Humans are smart, machines such as computers are dumb. Computers only seem smart because humans meticulously constructed stuff to make the computers appear smart.

Humans can figure anything out. The question is, do you want to do what is necessary for a machine to figure out a financial statement so that you can leverage what the machine can provide you if the machine can figure out what you want it to figure out.

The graphic below shows the relation between the expressiveness of different knowledge representation schemes and the relative automation or reasoning capacity which can be achieved¹¹.

Comparison of Knowledge Representation Expressiveness and Relative Automation/Reasoning Capacity



Inspired by similar comparisons from *An Intrepid Guide to Ontologies* <http://www.mkbergman.com/date/2007/05/16/> and *Semantics Overview* <http://prezi.com/prwxi8po3ln/semantics-overview/>

What needs to happen is to strike an appropriate balance between "formal" and "informal". That will make the system practical and cost-effective. It will also make the system consistent, reliable, repeatable, predictable, and otherwise effective.

¹¹ <http://www.xbrlsite.com/2014/Library/ExpressivenessAndReasoningCapacityComparison.jpg>



Less is known about workflow/process rules. That will be the next issue we run up against. For example, when an SEC filer submits a filing, that filing can be amended. What happens to the original filing in the database when another filing amends a filing? There are those sorts of issues that are not even on people's radar yet.

The following is a comprehensive summary of the items of a digital financial report which must be verified¹². The list is broken down by what can be verified using automated processes and what must be verified manually.

#	Goal or Desired State of Digital Financial Report	More information	Comments, examples, etc.	Automatable	Manual	FY 2013 (automatable tests only)	FY 2012 (automatable tests only)
1	XBRL technical syntax consistent with XBRL technical specification requirements	See		X		99.9%	99.9%
2	Consistent with requirements of EDGAR Filer automated and manual (EFM) syntax/semantics rules	See		X	X	97.9%	80.5%
3	Consistent and unambiguous report level representation or model structure	See	Tests arrangement of Network, Table, Axis, Member, Line Items, Abstracts, Concepts	X		99.9%	97.9%
4	Root entity of focus (economic entity, accounting entity) successfully and unambiguously detectable	See	If the entity of focus is not detected, unable to perform other tests	X		99.2%	98.8%
5	Current balance sheet date (document period end date) and income statement period (period context of document period end date) successfully and unambiguously detected	See		X		99.3%	99.8%
6	Fundamental accounting concept skeleton successfully and unambiguously detected and relations between concepts intact/sound	See		X		97.8%	97.6%
7	Primary financial statement roll up computations (balance sheet, income statement, statement of comprehensive income, cash flow statement) detected, intact, and foot	See	This has a dependency on discovery of fundamental accounting concepts. For example, if the concept "net cash flow" is not found, won't be able to find a roll up for net cash flow either.	X		90.1%	84.9%
8	Primary financial statements successfully discovered		This should be automatable, but if certain conditions exist it cannot be automated.	X	X	Generally successful	Generally successful
9	Primary financial statements foot and roll forward (cash flow statement, statement of changes in equity) appropriately		This is a duplicate of #7 which does not include the roll forwards; this is beyond the primary financials footing	X		Unknown	Unknown
10	Level 1 footnote disclosures appropriate		There is no way to automate this 100% unless the filer uses concepts from the US GAAP XBRL taxonomy.	X	X	Unknown	Unknown
11	Industry specific accounting concepts and relations valid		Similar to the fundamental accounting concepts, but for specific industries or activities	X	X	Unknown	Unknown
12	Level 2 policy text block disclosures appropriate				X	Fair	Unknown
13	Each Level 3 (Text Block) and related Level 4 detail disclosure match appropriately	See		X	X	Poor	Poor
14	Each Level 4 detail disclosure valid including representation structure, mathematical computations, intersections with other components, etc.	See	See the separate disclosure testing algorithm	X	X	Unknown	Unknown
15	Required disclosures discovered		Nature of business, basis of reporting, accounting policies and all other required disclosures are discovered	X		Unknown	Unknown
16	Reported prior period information consistent with prior report current period information where appropriate			X	X	Unknown	Unknown
17	Disclosure rules have been met and make sense		For example, if PPE exists on the balance sheet then PPE details should be discovered to be disclosed and PPE estimated useful lives should be discovered to be disclosed	X	X	Unknown	Unknown
18	Report element selection is justifiable, defensible, and otherwise appropriate				X	Unknown	Unknown
19	Reported facts appropriate				X	Unknown	Unknown
20	Variance analysis of reported facts as compared to peer or peer group appropriately explainable		Generally automatable using management by exception approach	X	X	Unknown	Unknown
21	Report element selection is consistent with peers or peer groups as appropriate				X	Unknown	Unknown
22	Disclosure checklist review for full inclusion		There is no way to automate the process of detecting things which should have been disclosed based on transactions, events, or other circumstances that are not included within report		X	Unknown	Unknown
23	True and fair representation of financial information of economic entity				X	Unknown	Unknown

2.3. Recognize that even if SEC filing rules and the US GAAP XBRL Taxonomy may allow for ambiguity; approaches do exist where SEC filings rules can be followed and information is consistent, explicit and unambiguous.

There is a "safe" or "happy path" through SEC EFM filing rules and the US GAAP XBRL Taxonomy where a quality, reliable, predictable, repeatable implementation approach can result. While it is likewise possible to pick a path where meaning is not clear and information is impossible or difficult to make use of; paths likewise exist which make meaning unambiguous and easy to make use of.

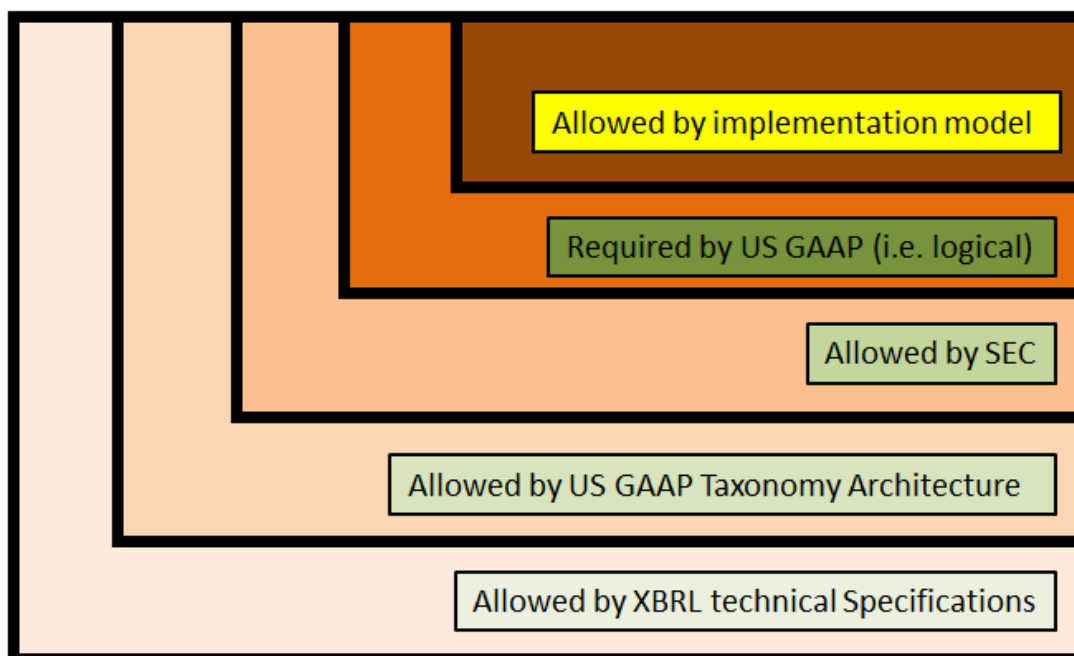
Consider the graphic below. The outer most box represents what is allowed by the XBRL technical specification. The US GAAP Taxonomy Architecture specifies addition constraints, limiting how XBRL can be used. For example, the US GAAP Taxonomy Architecture disallows the use of tuples and the precision attribute which XBRL does allow. The SEC further restricts what is allowed. For example, every SEC XBRL financial filing must use a specific entity identifier scheme and identifier, the CIK

¹² Digital financial reporting disclosure checklist, <http://www.xbrlsite.com/2014/Library/DisclosureChecklist.pdf>



number. US GAAP itself further restricts how XBRL can be used. For example, balance sheets balance (assets = liabilities and equity).

The smallest box is a more constrained set of rules that follows all other rules specified by US GAAP, the SEC, the US GAAP Taxonomy Architecture, and the XBRL technical specification. It is through balancing all of these layers correctly that an easy to use approach to expressing financial information digitally can be achieved.



Note that SEC EFM rules and US GAAP XBRL Taxonomy rules provided do not cover 100% of the necessary rules which must be followed. The SEC does not verify all rules when an SEC XBRL financial filing is submitted. For example, there are no rules which say that balance sheets need to balance (assets = liabilities and equity). However, this does not mean that balance sheets do not need to balance.

2.4. Recognize that being explicit contributes to the unambiguous interpretation of reported information.

The probability that reported facts will be agreed to by creators and users of information is increased if reported facts are explicit and unambiguous. Likewise, if information needs to be implied by the user of the financial information the probability for an inappropriate interpretation increases.

Explicit is defined as "stated clearly and in detail, leaving no room for confusion or doubt". Implicit is defined as "understood though not directly expressed". Explicit is preferred to implicit because many times something which one might believe is understood but not directly expressed, could be understood differently than one might expect it to be understood. Being explicit makes it unnecessary to imply.

Unambiguous is defined as “not open to more than one interpretation”. The definition of meaningful is “something that has a purpose”. Information cannot be both “meaningful” and “ambiguous”. Ambiguous is defined as “open to more than one interpretation” or “doubtful or uncertain”.

The purpose of a financial report is to convey meaning.

The only way a meaningful exchange of information can occur is the prior existence of agreed upon syntax, semantics, and workflow/process rules. To the extent that these explicit business rules exist, information can be unambiguous.

2.5. *Strive for consistency*

Consistency is good and preferred over inconsistency. Consistency makes things simpler. “Simple” is not about doing simple things. Simplicity is the ultimate sophistication.

If there is no specific reason for an inconsistency which can be explained which justifies the inconsistency; then you are very likely being inconsistent unconsciously with no reason and therefore one of the approaches can and should be dropped.

Inconsistencies cause additional training costs and additional burden, and unnecessary, burden on the user to somehow rationalize the inconsistency.

2.6. *Recognize the difference between presentation and representation.*

Paper and HTML are presentation formats. XBRL is a representation format. The representation format can be leveraged to also present information.

Accountants can choose to present information in different ways according to their preferences. However, the representation of information is not generally subject to interpretation.

For example, while an accountant might label a line item “Less allowance for doubtful accounts:” and either show “1000” or “(1000)” for a value, information represented for computer use may not work this way and provide meaningful, unambiguous information. A good example of this is how dividends is provided within an SEC XBRL financial filing. There is no situation where dividends can have a negative value per the definition of the concept “us-gaap:Dividends”. The documentation and balance attribute clearly indicate this.

HINT: An all too common mistake is to report dividends as a negative number because the presentation is negative. Dividends, and numerous other concepts, may never be negative in order to allow for unambiguous interpretation by software applications.

A disclosure is something that is required. “Presented on the face of the financial statements” is a specific type of disclosure.



A note or disclosure note is an organization or sequencing of disclosures. Accountants have a lot of leeway in terms of creating notes. Accountants have less leeway in terms of what must be disclosed. Sometimes accountants have options as to how information might be disclosed. Qualitative disclosures are more open to interpretation and judgment than most quantitative disclosures.

HINT: Avoid organizations of your disclosure notes in uncommon ways and always try and use a Level 1 [Text Block] which exists in the US GAAP XBRL Taxonomy. If this means changing the organization of your disclosure notes, you may want to consider reorganizing them. Help machines interpret your information correctly, don't force machines to guess because they might guess wrong.

2.7. Recognize that a financial report should be a true and fair representation.

Clearly the financial information provided by a reporting entity within a financial report must not be "untrue" or "unfair". As such, then a financial report must be "true" and "fair". These are not ideas defined by XBRL, the SEC, or even the US GAAP XBRL taxonomy. These are ideas expressed in the conceptual framework of financial reporting for US GAAP. Terms such as "faithful representation" and "free from error" and "consistency" and "comparability" are fundamental to financial reporting. It is just that before accountants needed only to express this information on paper correctly, the *presentation* of the information on paper; but now accountants need to also create an appropriate *representation* of the information.

Don't confuse the external reporting manager's responsibility to create a true and fair representation with the third-party auditor's responsibility to make sure the financial report is "presented fairly in all material respects".

2.8. Recognize that financial reports contain a discrete set of report elements which have specific properties and relations.

A financial report may be broken down into a discrete set of report components which are organized together for some purpose. For example, a balance sheet is a discrete report component which reports assets and liabilities and equity.

For example, here is information about the report elements of 7160 SEC XBRL financial filings, all 10-K filings, filed with the SEC:

Reported facts: (for 6,644 SEC XBRL financial filings)

Reports Count	Reported Facts	Extension Facts	Average Facts Per Report	Average Extension Rate
6,674	8,532,275	1,530,331	1,278	17.94%

Breakdown of report elements: (for 6,644 SEC XBRL financial filings)



Reports	Networks	Tables	Axis	Members	LineItems	Abstract	Concepts
6,674	477,041	232,233	386,915	1,210,860	232,693	737,943	3,165,250

Average report elements by report: (for 6,644 SEC XBRL financial filings)

Networks	Tables	Axis	Members	LineItems	Abstract	Concepts
71	35	58	181	35	111	474

Breakdown by networks of disclosure/statement; detail/text block:

Category	SubCategory	Networks	Report elements	Tables	Axis	Members	LineItems	Abstracts	Concepts
Document	Detail	6,418	104,619	1,917	1,829	2,809	1,934	6,213	89,917
Document	TextBlock	15	116	1	1	1	1	10	102
Statement	Detail	42,529	1,097,965	22,727	25,084	77,772	22,784	153,331	796,267
Statement	TextBlock	49	473	5	5	18	5	98	342
Disclosure	Detail	276,750	4,330,342	183,241	334,526	1,088,678	183,547	425,423	2,114,939
Disclosure	TextBlock	149,161	397,655	23,101	23,745	27,568	23,181	149,222	150,838
Schedule	Detail	1,326	32,931	1,201	1,684	13,943	1,201	2,851	12,051
Schedule	TextBlock	793	1,781	40	41	71	40	795	794

The point here is that you are not managing one big thing when creating a digital financial report. What you are managing is lots of little things. Many times one thing relates to some other thing. That relationship must be both intact and correctly represented. Business rules express those relations. Automated processes can leverage those business rules. But for automated processes to work, they need to have the business rules expressed so that software can use those rules. No computer readable business rules = manual process must be used. Manual process = increase cost and increased probability for error. There are many, many little pieces. Managing all these pieces manually simply cannot work.

2.9. Recognize that report elements can be categorized into common groups which have common relevant properties.

All these little pieces have names. Those pieces can be categorized into useful groupings. The report elements of a digital financial report can be categorized or grouped into a discreet set of categories which have the same properties: Network, [Table], [Axis], [Member], [Line Items], Concept, and [Abstract]¹³.

¹³ These terms are used by the US GAAP Taxonomy Architecture, see <http://xbrl.us/Documents/SECOFM-USGAAPT-Architecture-20080428.pdf>



This implies that using the term “tag” to discuss something which is contained within a digital financial report is not appropriate because a more precise term would exist. The term “tag” is a syntax term which has imprecise meaning.

- **Network:** A network is a one approach to break an SEC XBRL financial filing into smaller pieces. There are two reasons why you might need to break a financial filing into pieces: because you want to or because you have to. Networks are not necessary for understanding information. However, the SEC Interactive Data Viewer and other rendering applications do use them, sometimes in different ways. Networks help to order or sequence reported information. In SEC XBRL financial filings, networks have a **number**, a **sort category**, and a **title**. For example, "100001 - Statement - Balance Sheet". The number and the sort category help to articulate the flow of the financial filing.
- **Table:** A table is used to combine facts which go together for some specific reason. Tables are comprised of axis and line items. The line items of a table share the axis defined within a table. There are two types of tables: explicit tables and implicit tables. An explicit table always has at least one explicit axis; it could have more than one. An explicit table always has one set of line items.
- **Axis:** An axis is a means of providing information about the characteristics of a fact reported within a financial report.
- **Member:** A member is a possible value of an [Axis]. A [Member] is always part of a domain of an [Axis], thus the term "member" (i.e. of the domain or set; a domain is simply a set of [Member]s which relates to a specific [Axis]). Members of an [Axis] tend to be cohesive and share a certain common nature.
- **Line Items:** [Line items] are a set of concepts which can be reported by an entity, they can contain values. [Line Items] may also contain [Abstract] concepts which can never report values but rather are used to help organize the [Line Items].
- **Concept:** A concept refers to a financial reporting concept or a non-financial concept which can be reported as a fact within an SEC XBRL financial filing. A concept is sometimes referred to as a concrete concept, as compared to an abstract concept (see next report element). [Line Items] contain Concepts organized within a component which have the same information model. Concepts can be concrete (meaning they can be reported) or abstract (meaning that they are never reported; they are only used to organize the concepts contained within a set of line items).
- **Abstract:** An Abstract is a class of Concept. Abstracts are used for organization and can never be reported. Abstracts can be used within a [Line Items] or it can be used to organize the Tables within a Network.

HINT: The [Line Items] is in essence a special type of [Axis] which articulates the concept characteristic of a reported fact.



HINT: While the reporting entity and period are not called [Axis], they act exactly like an [Axis] to characterize reported facts. The reporting entity and period are implied [Axis]. The reporting entity indicates the CIK number of the reporting entity. The period indicates the calendar period of a reported fact.

HINT: A [Domain] is not a type of report element. A [Domain] as used by the US GAAP XBRL taxonomy and SEC XBRL financial filings is a [Member] which is the root of a domain of members. A domain is simply a set of members.



2.10. Recognize that each category of report elements has allowed and disallowed relations.

We pointed out that an SEC XBRL financial filing is made up of report elements. Those report elements can be categorized: Network, Table, Axis, Member, LineItems, Abstract, and Concept.

These relationships are referred to as the report level model structure or representation structure¹⁴. The top part of the graphic below shows the relations which are OK, which are disallowed, and which are not advised. The bottom part of the graphic shows information about the number of these relations within the set of 6,644 SEC XBRL financial filings analyzed.

LAX Model, SEC filers supported								
		Parent						
		Network	Table	Axis	Member	LineItems	Abstract	Concept
Child	Network	Illegal XBRL	Illegal XBRL	Illegal XBRL	Illegal XBRL	Illegal XBRL	Illegal XBRL	Illegal XBRL
	Table	OK	Disallowed	Disallowed	Disallowed	Disallowed	OK	Disallowed
	Axis	Disallowed	OK	Disallowed	Disallowed	Disallowed	Disallowed	Disallowed
	Member	Disallowed	Disallowed	OK	OK	Disallowed	Disallowed	Disallowed
	LineItems	Disallowed	OK	Disallowed	Disallowed	Disallowed	Disallowed	Disallowed
	Abstract	OK	Disallowed	Disallowed	Disallowed	OK	OK	Not advised
	Concept	Not advised	Disallowed	Disallowed	Disallowed	OK	OK	Not advised
LAX Model, SEC filers supported								
		Parent						
		Network	Table	Axis	Member	LineItems	Abstract	Concept
		477,041	232,230	386,912	1,216,391	232,690	732,409	3,165,249
Child	Network	0	0	0	0	0	0	0
	Table	1,261	1	0	0	45	230,899	24
	Axis	1	386,888	0	0	3	20	0
	Member	3	0	450,091	766,221	4	72	0
	LineItems	183	232,181	0	0	107	217	2
	Abstract	474,310	22	0	1	113,059	144,471	546
	Concept	46	26	11	137	1,222,427	1,929,257	13,346

For example, Axis are related to Tables, not to concepts. Your SEC XBRL financial filing should comply with these relations. What would it mean if you found an Axis within a set of LineItems?

2.11. Recognize that financial reports contain a discrete set of financial report component which can be categorized.

A financial report may be broken down into a discrete set of report components which are organized together for some purpose. These report components can be grouped in to similar components. For example, a balance sheet is a discrete report component. Every SEC XBRL financial filer reports a balance sheet.

¹⁴ Report level model structure, <http://xbrl.squarespace.com/journal/2014/3/16/report-level-model-structure-update-insights-obtained.html>



To make this notion clear, consider the fact that the US GAAP XBRL Taxonomy provides a set of [Text Block]s. Each of those [Text Block]s have a name. The screen shot below is an application¹⁵ which allows its user to look at the disclosure made for reporting entities for each of these [Text Block]s.

The screenshot shows the 'Financial Disclosure Research Utility' interface. On the left, there are filters for 'Which type:' (Policies, Note level, Disclosure level) and 'Which disclosure:' (a list of various financial items). The 'Selected disclosure' is 'Property, Plant and Equipment [Table Text Block]'. Below this is a list of entities, with 'BOEING CO' selected. The main area displays a table for Boeing's property, plant, and equipment at December 31 for 2013 and 2012.

	2013	2012
Land	\$562	\$531
Buildings and land improvements	11,068	10,696
Machinery and equipment	12,376	11,847
Construction in progress	1,288	1,231
Gross property, plant and equipment	25,294	24,305
Less accumulated depreciation	(15,070)	(14,645)
Total	\$10,224	\$9,660

2.12. Recognize and respect relations between Level 3 [Text Block]s and Level 4 Detail disclosures.

Recognize that relations exist between the SEC Level 3 [Text Block]s and SEC Level 4 detailed disclosures within an SEC XBRL financial filing. The two disclose the same information, just at different levels of detail.

Consider this example which will explain what is meant. The example provided below comes from this SEC XBRL financial filing by Microsoft:

<http://www.sec.gov/Archives/edgar/data/789019/000119312513310206/0001193125-13-310206-index.htm>

This is Microsoft's disclosure of the items which make up property, plant and equipment provided as an SEC Level 3 [Text block] *us-gaap:PropertyPlantAndEquipmentTextBlock*.

¹⁵ You can use the application to view the report components at this URL:
<http://www.xbrlsite.com/LinkedData/indexPrototype2.html>



DIGITAL FINANCIAL REPORTING PRINCIPLES (DRAFT)

Component: (Network and Table)	
Network	1040 - Disclosure - Property and Equipment (Tables) (http://www.microsoft.com/taxonomy/role/NotesToFinancialStatementsPropertyPlantAndEquipmentDisclosureTextBlockTables)
Table	Statement [Table]

Slicers (applies to each fact value in each table cell)

Reporting Entity [Axis]	0000789019 (http://www.sec.gov/CIK)
Legal Entity [Axis]	Entity [Domain]

Statement [Line Items]	Period [Axis]	
	2012-07-01 - 2013-06-30	
Components of Property and Equipment	The components of property and equipment were as follows:	
	(In millions)	
	June 30,	
	Land	\$ 525 \$ 528
	Buildings and improvements	7,326 6,768
	Leasehold improvements	2,946 2,550
	Computer equipment and software	9,242 7,298
	Furniture and equipment	2,465 2,087
	Total, at cost	22,504 19,231
	Accumulated depreciation	(12,513) (10,962)
	Total, net	\$ 9,991 \$ 8,269

Here is the same information provided as an SEC Level 4 disclosure with the bottom line value of this disclosure being the concept *us-gaap:PropertyPlantAndEquipmentNet*.

Component: (Network and Table)	
Network	1071 - Disclosure - Components of Property and Equipment (Detail) (http://www.microsoft.com/taxonomy/role/DisclosureComponentsOfPropertyAndEquipment)
Table	Property, Plant and Equipment [Table]

Slicers (applies to each fact value in each table cell)

Reporting Entity [Axis]	0000789019 (http://www.sec.gov/CIK)
Legal Entity [Axis]	Entity [Domain]

Property, Plant and Equipment [Line Items]	Period [Axis]	
	2013-06-30	2012-06-30
Land	525,000,000	528,000,000
Buildings and improvements	7,326,000,000	6,768,000,000
Leasehold improvements	2,946,000,000	2,550,000,000
Computer equipment and software	9,242,000,000	7,298,000,000
Furniture and equipment	2,465,000,000	2,087,000,000
Total, at cost	22,504,000,000	19,231,000,000
Accumulated depreciation	(12,513,000,000)	(10,962,000,000)
Total, net	9,991,000,000	8,269,000,000

This relationship is not a coincidence and is not unique to the property, plant, and equipment details disclosure. The PDF below points to an analysis of the property, plant and equipment details disclosure for numerous SEC XBRL financial filings:

<http://www.xbrlsite.com/2014/Library/PropertyPlantAndEquipmentNetByTypeRollUp.pdf>

As the analysis shows, the Level 3 and Level 4 disclosure are synchronized in the vast majority of property, plant, and equipment details disclosure.

This blog post shows similar analysis for a hand full of other disclosures:

<http://xbrl.squarespace.com/journal/2014/6/24/mind-boggling-diversity-of-sec-xbrl-financial-filings.html>



For example, here another disclosure: Property, plant and equipment estimated useful lives. Here is the Level 3 text block disclosure, the filers concept for this Level 3 text block was *ncs:ScheduleOfUsefulLivesPropertyPlantAndEquipmentTableTextBlock*, an extension.

Estimated useful lives for depreciation are:

	10 – 39
Buildings and improvements	years
	3 – 15
Machinery, equipment and furniture	years
	4 – 10
Transportation equipment	years
Computer software and equipment	3 – 7 years

And here is the Level 4 detailed disclosure of the same information, the concept used by the filer was *us-gaap:PropertyPlantAndEquipmentUsefulLife*.

Component: (Network and Table)	
Network	159 - Disclosure - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Details 4) (http://www.ncip.com/role/SummaryOfSignificantAccountingPoliciesDetails4)
Table	Schedule Of Significant Accounting Policies [Table]

Slicers (applies to each fact value in each table cell)

Reporting Entity [Axis]	0000883902 (http://www.sec.gov/CIK)
Period [Axis]	2012-10-29 - 2013-11-03

Summary Of Significant Accounting Policies [Line Items]	Property, Plant and Equipment, Type [Axis]							
	Building and Building Improvements [Member]		Machinery and Equipment [Member]		Transportation Equipment [Member]		Computer Software and Equipment [Member]	
	Range [Axis]		Range [Axis]		Range [Axis]		Range [Axis]	
	Maximum [Member]	Minimum [Member]	Maximum [Member]	Minimum [Member]	Maximum [Member]	Minimum [Member]	Maximum [Member]	Minimum [Member]
Property, Plant and Equipment, Useful Life	P39Y	P10Y	P15Y	P3Y	P10Y	P4Y	P7Y	P3Y

<http://www.sec.gov/Archives/edgar/data/883902/000114420413068730/0001144204-13-068730-index.htm>

The point is that a similar relation exists for this disclosure and other disclosures. Further, while it is beyond the scope of this document; comparing and contrasting disclosures raises many, many questions which accountants expressing this information should be aware of.

For example with regard to the property, plant and equipment estimated useful lives disclosure: the fact that so many filers created an extension concept for the Level 3 text block or used an obviously incorrect concept to express this disclosure, it is clear that this Level 3 text block is missing from the US GAAP XBRL Taxonomy. Also, if you consider the property, plant and equipment estimated useful lives disclosure and then look at the finite-lived intangible assets estimated useful lives disclosure; you realize that that Level 3 text block is likewise missing from the taxonomy.

HINT: The US GAAP XBRL Taxonomy has many missing Level 3 [Text Block]s. As such, it may seem hard to match the Level 3 [Text Block] and Level 4 detail level disclosures. What many filers do is try to find "some text block which is close". This causes two problems. First, it causes your text block to not match the disclosures of others who are using this text block properly. Basically, you will be inconsistent with other SEC filings. Second, it makes it harder to discover text blocks which are missing from the US GAAP XBRL Taxonomy. It is better to create an extension concept than use an inappropriate concept.



HINT: In SEC XBRL financial filings, some filers provide the property, plant, and equipment details disclosure using the text block used by most others, the concept *us-gaap:PropertyPlantAndEquipmentTextBlock*. However, rather than the Level 4 detail disclosure having the most commonly used concept *us-gaap:PropertyPlantAndEquipmentNet*, the filers use the concept *us-gaap:PropertyPlantAndEquipmentGross*. What does this mean? Is this intended by the US GAAP XBRL Taxonomy, or is this a mistake? Another similar situation is where some filers use the same Level 3 [Text Block] to express information which is current with other SEC filers using that same Level 3 [Text Block] to disclose information which is noncurrent in the Level 4 detailed representation. Is this intended or is it an oversight? It seems rather odd that the same Level 3 [Text Block] would be used to express different Level 4 detail disclosures.

Another thing to consider is that the US GAAP XBRL Taxonomy provides two different approaches to expressing detailed information in many cases. One way is to differentiate reported facts using concepts. Another way is to express information using one concept, but than an [Axis] and [Member] to differentiate reported facts. Here is an example of the concept based approach:

Component: (Network and Table)	
Network	1071 - Disclosure - Components of Property and Equipment (Detail) (http://www.microsoft.com/taxonomy/role/DisclosureComponentsOfPropertyAndEquipment)
Table	Property, Plant and Equipment [Table]

Slicers (applies to each fact value in each table cell)

Reporting Entity [Axis]	0000789019 (http://www.sec.gov/CIK)
Legal Entity [Axis]	Entity [Domain]

Property, Plant and Equipment [Line Items]	Period [Axis]	
	2013-06-30	2012-06-30
Land	525,000,000	528,000,000
Buildings and improvements	7,326,000,000	6,768,000,000
Leasehold improvements	2,946,000,000	2,550,000,000
Computer equipment and software	9,242,000,000	7,298,000,000
Furniture and equipment	2,465,000,000	2,087,000,000
Total, at cost	22,504,000,000	19,231,000,000
Accumulated depreciation	(12,513,000,000)	(10,962,000,000)
Total, net	9,991,000,000	8,269,000,000

And here is an example of the single concept differentiated using an [Axis] and [Member]s:



Component: (Network and Table)	
Network	4090 - Disclosure - Property and Equipment (Details) (http://www.ascentmediacorporation.com/role/DisclosurePropertyAndEquipmentDetails)
Table	Schedule of Property, Plant and Equipment [Table]

Slicers (applies to each fact value in each table cell)

Reporting Entity [Axis]	0001437106 (http://www.sec.gov/CIK)
-------------------------	--

Property and Equipment	Period [Axis]							
	2012-01-01 - 2012-12-31				2011-01-01 - 2011-12-31			
	Property, Plant and Equipment, Type [Axis]				Property, Plant and Equipment, Type [Axis]			
	Land [Member]	Building and Leasehold Improvements [Member]	Machinery and Equipment and Software [Member]	Property, Plant and Equipment, Type [Domain]	Land [Member]	Building and Leasehold Improvements [Member]	Machinery and Equipment and Software [Member]	Property, Plant and Equipment, Type [Domain]
Property and equipment, gross	23,170,000	35,206,000	28,685,000	87,061,000	34,896,000	54,575,000	22,763,000	112,234,000
Accumulated depreciation				(30,570,000)				(37,537,000)
Property and equipment, net				56,491,000				74,697,000

Both approaches articulate the same meaning or information. Each approach has its pros and cons. But these two approaches raise the question of whether the US GAAP XBRL Taxonomy should have one text block or two text blocks, one for each detailed approach.

Another issue which is raised relates to the following example. Suppose a filer decides to provide the property, plant and equipment details on the balance sheet. Does this mean that the Level 3 text block is or is not required?

Property and equipment			
Land		6,234,000,000	6,206,000,000
Buildings and improvements		30,356,000,000	28,653,000,000
Fixtures and equipment		5,583,000,000	5,362,000,000
Computer hardware and software		2,764,000,000	2,567,000,000
Construction-in-progress		843,000,000	1,176,000,000
Accumulated depreciation		(14,402,000,000)	(13,311,000,000)
Property and equipment, net		31,378,000,000	30,653,000,000
Other noncurrent assets		1,602,000,000	1,122,000,000
Total assets		44,553,000,000	48,163,000,000

Again, keep in mind that while the discussion focused on specific disclosures here, property, plant and equipment; these situations exist for virtually every disclosure and there are about a thousand different disclosures.

2.13. Recognize the existence of and properly respect and represent intersections between report components.

Report components which make up a financial report can be intersected with one or more other report components. For example, "Inventories" summarized in the balance sheet might be detailed within a disclosure contained within a note to the



financial report. The “Total inventories” concept is the intersection between the summary and detail report components.

For example, below you see a summary (the balance sheet) and detail (the property, plant and equipment details breakdown).

Balance sheet:

Reporting Entity [Axis]	0000000001 (http://www.sec.gov/CIK)	
Legal Entity [Axis]	Consolidated Entity [Domain]	
	Period [Axis]	
Balance Sheet [Line Items]	2012-12-31	2011-12-31
Assets [Roll Up]		
Current assets [Roll Up]		
Cash, cash equivalents, and marketable securities [Roll Up]		
Cash and cash equivalents	11,000,000	10,000,000
Marketable securities	9,000,000	10,000,000
Cash, cash equivalents, and marketable securities	20,000,000	20,000,000
Accounts receivable, net of allowance for doubtful accounts of \$1,000 and \$1,000	29,000,000	29,000,000
Inventories	4,000,000	4,000,000
Prepaid expenses	3,000,000	3,000,000
Total current assets	56,000,000	56,000,000
Noncurrent assets [Roll Up]		
Property, plant and equipment, net	82,000,000	82,000,000
Deferred costs	9,000,000	9,000,000
Total noncurrent assets	91,000,000	91,000,000
Total assets	147,000,000	147,000,000
Liabilities and Equity [Roll Up]		
Current liabilities [Roll Up]		
Accounts payable	3,000,000	3,000,000
Accrued liabilities	4,000,000	4,000,000
Current portion of long-term debt	22,000,000	22,000,000
Product warranty accrual, current portion	26,000,000	26,000,000

Property, plant, and equipment breakdown:

Reporting Entity [Axis]	0000000001 (http://www.sec.gov/CIK)	
Legal Entity [Axis]	Consolidated Entity [Domain]	
	Period [Axis]	
Property, Plant and Equipment [Line Items]	Property, Plant and Equipment, Type [Axis]	2012-12-31
Property, Plant and Equipment, Net, by Type [Roll Up]		2011-12-31
Property, plant and equipment, gross	Land [Member]	40,000,000
	Machinery and equipment [Member]	50,000,000
	Furniture and fixtures [Member]	7,000,000
	Property, Plant and Equipment, All Types [Domain]	97,000,000
Accumulated depreciation	Property, Plant and Equipment, All Types [Domain]	(15,000,000)
Property, plant, and equipment, net	Property, Plant and Equipment, All Types [Domain]	82,000,000



It is challenging to show the notion of an intersection and how useful it is in software applications. This video walks you through what an intersection is and how to view them using the XBRL Cloud Viewer: <http://www.youtube.com/watch?v=INPjwKy2Obs>

HINT: A good way to view intersections is using the free Firefox XBRL plug-in¹⁶ or the XBRL Cloud Viewer.

2.14. Recognize and respect fundamental accounting concepts and unchangeable relations between those accounting concepts

Financial reports contain a “skeleton” which forms a frame for a financial report. For example, financial reports always contain balance sheets and balance sheets always contain “Assets” and “Liabilities and Equity.” There are exceptions to this rule; for example when a statement of net assets is used but this case is simply another reporting option which would be handled by a different rule specific to that reporting circumstance.

In addition, fundamental accounting concepts¹⁷ have relations with other fundamental accounting concepts which never change. For example, “Assets” = “Liabilities and Equity” is a relationship which never changes. $\text{Assets} = \text{Current Assets} + \text{Noncurrent Assets}$ is a relationship which never changes.

The fact that a relation exists has nothing to do with whether a reporting entity reported a concept or not. For example, if a reporting entity reported “Assets” and “Current Assets”, the relation $\text{Assets} = \text{Current Assets} + \text{Noncurrent Assets}$ still holds. In fact, one can leverage that relationship to impute the value of “Noncurrent Assets” using basic mathematics: $\text{Noncurrent Assets} = \text{Assets} - \text{Current Assets}$.

Note that verification of the existence of these fundamental accounting concepts and adherence to the specified relations can be automated.

Note that SEC XBRL financial filings follow these rules which proves the existence of the rule. When one examines SEC XBRL financial filings, one sees that 98% of these relations within the 6,644 SEC XBRL financial filings analyzed, all 10-K filings¹⁸, follow this rule. Further, when you look at the SEC filings which do not follow the rule, the reason for not following the rule can be traced to one of two causes: (1) an error which causes the rule to fail or (b) an ambiguity in the filing which makes it impossible to detect or impute values correctly.

Here is a screen shot of the balance sheet section of one SEC XBRL financial filing¹⁹ which shows how that filing has each of these fundamental accounting concepts and satisfies the relations between each of those fundamental accounting concepts. Visit the link to see the entire set of fundamental accounting concepts for this filing.

¹⁶ To get the Firefox plug-in See <http://xbrl.squarespace.com/journal/2010/10/29/game-changer-xbrl-viewer-add-on-for-firefox.html>

¹⁷ *Fundamental Accounting Concepts*, <http://fundamentalaccountingconcepts.wikispaces.com/>

¹⁸ For details of the analysis see <http://xbrl.squarespace.com/journal/2014/3/16/fundamental-accounting-concepts-update-insights-obtained.html>

¹⁹ Microsoft financial report, see <http://app.secxbri.info/entity/0000789019/information/2013/FY>



▼ Balance Sheet Unclassified

Label	Value	Origin
Current Assets	101,466,000,000	
Noncurrent Assets	40,965,000,000	fac:NoncurrentAssets[40,965,000,000 USD] = fac:Assets[142,431,000,000 USD] - fac:CurrentAssets[101,466,000,000 USD]
Assets	142,431,000,000	
Current Liabilities	37,417,000,000	
Noncurrent Liabilities	26,070,000,000	fac:NoncurrentLiabilities[26,070,000,000 USD] = fac:Liabilities[63,487,000,000 USD] - fac:CurrentLiabilities[37,417,000,000 USD]
Liabilities	63,487,000,000	
Commitments and Contingencies	0	
Temporary Equity	0	fac:TemporaryEquity[0] := 0
Redeemable Noncontrolling Interest	0	fac:RedeemableNoncontrollingInterest[0] := 0
Equity Attributable to Parent	78,944,000,000	
Equity Attributable to Noncontrolling Interest	0	fac:EquityAttributableToNoncontrollingInterest[0] := 0
Equity	78,944,000,000	
Liabilities and Equity	142,431,000,000	

This is a screen shot which shows that 98% of all SEC XBRL financial filings analyzed pass all of these 21 relations.

Test	Fundamental accounting relationship (business rule)	Total set	No root entity	Exclude	Total set	Pass test	Percent	Comments	Fail test
B51	Equity = EquityAttributableToParent + EquityAttributableToNoncontrollingInterest	7,160	58	0	7,102	7,003	98.6%		99
B52	Assets = LiabilitiesAndEquity	7,160	58	0	7,102	7,061	99.4%		41
B53	Assets = CurrentAssets + NoncurrentAssets	7,160	58	1,631	5,471	5,469	100.0%	Not all filers have classified balance sheets. Unclassified balance sheets excluded.	2
B54	Liabilities = CurrentLiabilities + NoncurrentLiabilities	7,160	58	1,631	5,471	5,467	99.9%	Not all filers have classified balance sheets. Unclassified balance sheets excluded.	4
B55	LiabilitiesAndEquity = Liabilities + CommitmentsAndContingencies+ TemporaryEquity+ Equity	7,160	58	0	7,102	6,807	95.8%		295
IS1	GrossProfit = Revenues - CostOfRevenue	7,160	412	3,403	3,345	2,946	88.1%	Not all filers use multi-step income statement. Exclude developing stage and going concerns.	399
IS2	OperatingIncomeLoss = GrossProfit - OperatingExpenses + OtherOperatingIncome	7,160	412	3,403	3,345	2,670	79.8%	Not all filers use multi-step income statement. Exclude developing stage and going concerns.	675
IS3	IncomeBeforeEquityMethodInvestments = OperatingIncomeLoss + NonoperatingIncomeLoss + InterestAndDebtExpense	7,160	58	0	7,102	6,508	91.6%		594
IS4	IncomeFromContinuingOperationsBeforeTax = IncomeBeforeEquityMethodInvestments + IncomeFromEquityMethodInvestments	7,160	58	0	7,102	6,775	95.4%		327
IS5	IncomeFromContinuingOperationsAfterTax = IncomeFromContinuingOperationsBeforeTax - IncomeTaxExpenseBenefit	7,160	58	0	7,102	6,681	94.1%		421
IS6	NetIncomeLoss = IncomeFromContinuingOperationsAfterTax + IncomeFromDiscontinuedOperations + ExtraordinaryItemsGainLoss	7,160	58	0	7,102	6,750	95.0%		352
IS7	NetIncomeLoss = NetIncomeAttributableToParent + NetIncomeAttributableToNoncontrollingInterest	7,160	58	0	7,102	6,724	94.7%		378
IS8	NetIncomeAvailableToCommonStockholdersBasic = NetIncomeAttributableToParent - PreferredStockDividendsAndOtherAdjustments	7,160	58	0	7,102	6,661	93.8%		441
IS9	ComprehensiveIncome = ComprehensiveIncomeAttributableToParent + ComprehensiveIncomeAttributableToNoncontrollingInterest	7,160	58	0	7,102	6,934	97.6%		168
IS10	ComprehensiveIncome = NetIncomeLoss + OtherComprehensiveIncome	7,160	58	0	7,102	7,029	99.0%		73
CF1	NetCashFlow = NetCashFlowsContinuing + NetCashFlowsDiscontinued + ExchangeGainsLosses	7,160	58	142	6,960	6,662	95.7%	Total of 142 use alternate approach of not including ExchangeGainsLosses in NetCashFlow.	298
CF2	NetCashFlowsContinuing = NetCashFlowsOperatingContinuing + NetCashFlowsInvestingContinuing + NetCashFlowsFinancingContinuing	7,160	58	0	7,102	6,962	98.0%		140
CF3	NetCashFlowsDiscontinued = NetCashFlowsOperatingDiscontinued + NetCashFlowsInvestingDiscontinued + NetCashFlowsFinancingDiscontinued	7,160	58	0	7,102	7,119	100.2%		-17
CF4	NetCashFlowsOperating = NetCashFlowsOperatingContinuing + NetCashFlowsOperatingDiscontinued	7,160	58	0	7,102	7,069	99.5%		33
CF5	NetCashFlowsInvesting = NetCashFlowsInvestingContinuing + NetCashFlowsInvestingDiscontinued	7,160	58	0	7,102	7,106	100.1%		-4
CF6	NetCashFlowsFinancing = NetCashFlowsFinancingContinuing + NetCashFlowsFinancingDiscontinued	7,160	58	0	7,102	7,147	100.6%		-45
								Total failed information points	4,674
								No information found at all	2,754
								Total errors in information	7,428
								Total number of information points (7,160 filers X 51 information points)	365,160
								Percent of information incorrect:	2.0%
								Percent of information CORRECT:	98.0%



HINT: You don't want to turn discovering the fundamental information into a guessing game. You want to make it safe for software applications to gather information. If they cannot sort out this fundamental information, it is unlikely that they will be able to sort out the details. Also, these fundamental concepts are just that, fundamental. There are more of these sorts of relations. This is just an example.

2.15. Recognize and respect common report component arrangement patterns.

Report components are related to other report components. The discrete set of components which make up a financial report can have a "sequence" or "ordering" or some arrangement. Further, groups of report components exist such as "statement", "disclosure", etc., and are that way are also related.

The SEC interactive data viewer leverages these relations. The SEC viewer also leverages the numbers provided for each network to organize the pieces of the report. The SEC viewer Level 1 note level [Text Block]s, Level 2 accounting policy [Text Block]s, Level 3 [Text Block]s, and Level 4 detailed disclosures. You can see this leverage in the contents page of the left side of the SEC interactive data viewer. Other viewers likewise leverage this information for sequencing and ordering a digital financial report.

Print Document View Excel Document	
Cover	Document And Entity Information (USD \$)
Document And Entity Information	Document Information [Line Items]
Financial Statements	Entity Registrant Name NET TALK.COM, INC.
Balance Sheets	Entity Central Index Key 0001383825
Balance Sheets (Parenthetical)	Current Fiscal Year End Date --12-31
Statements of Operations	Entity Filer Category Smaller Reporting Company
Statements of Cash Flows	Trading Symbol NTLK
Statement of Stockholders' Deficit	Entity Common Stock, Shares Outstanding
Notes to Financial Statements	Document Type 10-K
Accounting Policies	Amendment Flag false
Notes Tables	Document Fiscal Year Focus 2012
Notes Details	Document Period End Date Dec. 31, 2012
Going concern and management's plans (Details Textual)	Document Fiscal Period Focus FY
Summary of Significant Accounting Policies (Details)	Entity Well-known Seasoned Issuer No
Summary of Significant Accounting Policies (Details 1)	Entity Voluntary Filers No
Summary of Significant Accounting Policies (Details 2)	Entity Current Reporting Status No
	Entity Public Float
	[1] The aggregate market value of common equity held-by non-affiliates is comp



2.16. Recognize and respect common concept arrangement patterns which indicate how a set of Concepts are organized within a [Line Items].

The set of accounting concepts which make up [Line Items] are not random; rather they can be grouped into a set of patterns. Identified and commonly used concept arrangement patterns include:

- **Roll up:** Fact A + Fact B + Fact C + Fact N = Fact D (a total)
- **Roll forward:** Beginning balance + one or more changes = Ending balance
- **Adjustment:** Originally stated balance + one or more adjustments = restated balance
- **Variance:** Actual amount – Budgeted amount = Variance. A variance is a change across a reporting scenario.
- **Complex computation:** A complex computation is a type of information model where facts are related by some computation other than a roll up, roll forward, adjustment, or variance. For example, Net income / Weighted average shares = Earnings per share.
- **Hierarchy:** A hierarchy is a type of arrangement pattern where facts are related in some way, but not mathematically. For example, a set of accounting policies is related in that they are accounting policies, but they have no mathematical relation.

For example, rollup

Balance Sheets (USD \$)	Dec. 31, 2012	Dec. 31, 2011
Assets		
Cash and cash equivalents	\$ 96,347	\$ 1,539,263
Restricted cash	115,259	98,877
Accounts receivable, net	472,233	576,160
Inventory	1,467,774	2,205,255
Prepaid expenses	277,908	3,511
Note receivable	7,000	43,000
Total current assets	2,436,521	4,466,066
Building, telecommunications equipment, land and other property, net	2,980,068	3,000,039
Intangible assets, net	193,007	132,364
Other assets	37,253	39,754
Total assets	5,646,849	7,638,223

HINT: Some rendering engines understand more concept arrangement patterns better than others.



2.17. Recognize and respect common member arrangement patterns.

The set of [Member]s which make up the domain of an [Axis] are not random; they can be grouped into a set of common member arrangement patterns. The [Member]s of an [Axis] tend to be used to differentiate different types of whole-part type relations. While we will only provide summary information about whole-part relations here, the document *A Taxonomy of Part-Whole Relations*²⁰ is an excellent reference for understanding these sorts of breakdowns. The presentation *Knowledge Representation for the Semantic Web*²¹ provides additional details:

- **Component-integralObject:** Indicates that a component contains some integral object. For example, the component handle is part of the integral object cup; wheels are a component part of a car; a refrigerator is a component of a kitchen.
- **Member-collection:** Indicates that some member is part of some collection. For example a ship is part of a fleet. Or, a subsidiary is part of an economic entity.
- **Portion-mass:** Indicates that some portion is part of some mass. For example a slice is part of a pie.
- **Stuff-object:** Indicates that some "stuff" is part of some object. For example steel is part of a car. (This may not be appropriate or necessary for financial reporting.)
- **Feature-activity:** Indicates that some feature is part of some activity. For example the feature "paying" is part of the activity "shopping".
- **Place-area:** Indicates that some physical place is part of some area. For example the place "Everglades" is part of the area "Florida".

[CSH: It is highly probable that not all these types of relations are important to financial reporting and that financial reporting has specific classes of these sorts of breakdowns. More work is necessary to investigate this.]

These whole-part type relations may, or may not, aggregate across the set of [Member]s within a domain. Some do, some do not. Identified and commonly used aggregation of member arrangement patterns includes:

- **Partial set:** A partial sets are [Member]s of an [Axis] which do not comprise the full spectrum or universe of possible options. For example, "United States" and "Spain" is a partial set of countries. [CSH: I don't think this is a pattern because all sets are complete with respect to a specific financial report.]
- **Complete flat set:** A complete flat set is a "flat" (meaning no sub-relations) and complete list of [Member]s of an [Axis]. For example, a listing of all the business segments could be a complete flat set if it is (a) complete and (b) it is one flat list with no sub relations.

²⁰ *A Taxonomy of Part-Whole Relations*, <http://csjarchive.cogsci.rpi.edu/1987v11/i04/p0417p0444/MAIN.PDF>

²¹ *Knowledge Representation for the Semantic Web*, <http://www.semantic-web-book.org/w/images/3/35/W2012-07-partonomies.pdf>



- **Complete hierarchical set:** A complete hierarchical set is like a complete flat set in that it is complete; however a complete hierarchical set does have sub relations making it hierarchical as compared to flat. For example, a list of the countries which make up the geographic areas of a reporting entity which is further grouped by regions into which each country fits is a complete hierarchical set.
- **Complete complex set:** A complete complex set is like a complete flat and complete hierarchical set in that it is complete; however the hierarchy of relations is not flat nor a simple one-level hierarchy but rather the hierarchy has multiple levels and is therefore considered complex.

Only "flat sets" should be used as XBRL has no way of articulating the meaning of relations between [Member]s within a set of [Member]s.

HINT: Only flat sets of [Member]s should be used because XBRL has now specific way, other than XBRL Formula, to articulate a hierarchy of [Member]s. So, rather than creating one [Axis] with a hierarchy, create two [Axis] to express the different hierarchies.

Recognize that there are different types of relationships between [Member]s. One big issue with XBRL presentation relations in general and the US GAAP Taxonomy in particular is the vagueness of the "parent-child" relationship which is used to express relationships.

Basically, the arcrole "<http://www.xbrl.org/2003/arcrole/parent-child>" used to communicate that there is in fact some sort of relationship leaves open to interpretation exactly what that relation is and what the relation means. While what is expressed might be clear to those who use the "parent-child" relationship to express something; the intent tends to not come through, be misinterpreted, be inconsistent because of different people working on different areas of a taxonomy, and in general leads to confusion.

2.18. Avoid mixing or run-together concept arrangement patterns.

Mixing more than one concept arrangement pattern together increases the difficulty of reading disclosure information. While running different patterns together is not illegal per SEC XBRL filing rules, doing this can cause challenges to rendering engines trying to present the information in human readable form and cause information to be hard to comprehend.

For example, mixing a "roll up" and a "roll forward" should be avoided as information appears to run together and is hard to understand. For example, representing a roll up which then runs into a roll forward or two distinct roll ups together without differentiating them should be avoided.

Avoid doing this:

<http://www.sec.gov/Archives/edgar/data/47217/000104746912011417/0001047469-12-011417-index.htm>



Commitments (Details) (USD \$) In Millions, unless otherwise specified	12 Months Ended		
	Oct. 31, 2012	Oct. 31, 2011	Oct. 31, 2010
Commitments			
Rent expense	\$ 1,012	\$ 1,042	\$ 1,062
Sublease rental income	37	38	46
Property under capital lease	882	577	
Accumulated depreciation on property under capital lease	453	454	
Minimum lease payments, sublease rental income			
Minimum lease payments, 2013	780		
Minimum lease payments, 2014	665		
Minimum lease payments, 2015	517		
Minimum lease payments, 2016	351		
Minimum lease payments, 2017	218		
Minimum lease payments, thereafter	805		
Minimum lease payments, total	3,336		
Less: Sublease rental income, 2013	(28)		
Less: Sublease rental income, 2014	(23)		
Less: Sublease rental income, 2015	(18)		
Less: Sublease rental income, 2016	(9)		
Less: Sublease rental income, 2017	(4)		
Less: Sublease rental income, thereafter	(12)		
Sublease rental income, total	(94)		
Minimum lease payments net of sublease rental income, 2013	752		
Minimum lease payments net of sublease rental income, 2014	642		
Minimum lease payments net of sublease rental income, 2015	499		
Minimum lease payments net of sublease rental income, 2016	342		
Minimum lease payments net of sublease rental income, 2017	214		
Minimum lease payments net of sublease rental income, thereafter	793		
Minimum lease payments net of sublease rental income, total	3,242		
Capital lease commitments			
Capital lease commitments, 2013	59		
Capital lease commitments, 2014	240		
Capital lease commitments, 2015	11		
Capital lease commitments, 2016	7		
Capital lease commitments, 2017	4		
Capital lease commitments, thereafter	33		
Capital lease commitments, total	354		
Less: Interest payments, 2013	(8)		
Less: Interest payments, 2014	(6)		
Less: Interest payments, 2015	(3)		
Less: Interest payments, 2016	(2)		
Less: Interest payments, 2017	(2)		
Less: Interest payments, thereafter	(12)		
Interest payments, total	(33)		

Instead, try this:

<http://www.sec.gov/Archives/edgar/data/1285785/000119312512323518/0001193125-12-323518-index.htm>



Concept	Period [Axis]		
	2011-06-01 - 2012-05-31	2010-06-01 - 2011-05-31	2009-06-01 - 2010-05-31
Unrecorded Unconditional Purchase Obligation [Abstract]			
2012	1,874,000,000		
2013	315,800,000		
2014	176,600,000		
2015	117,700,000		
2016	107,400,000		
Subsequent years	2,099,900,000		
Total	4,691,400,000		
A schedule of future minimum lease payments under non-cancelable operating leases follows:			
2012	41,100,000		
2013	24,600,000		
2014	16,300,000		
2015	10,200,000		
2016	6,300,000		
Subsequent years	13,900,000		
Total	112,400,000		
Rental expense and purchases made for the fiscal period were as follows:			
Rental expense for the fiscal period			
Purchases made under long-term commitments during the reporting period	3,100,000,000	2,200,000,000	1,300,000,000
Contracts Revenue	158,200,000	186,800,000	66,100,000
Surety Bonds Outstanding [Abstract]			
Surety bonds outstanding for mining reclamation obligations	171,300,000		
Surety bonds outstanding for other than mining reclamation obligations	13,900,000		
Total amount of surety bonds outstanding	185,200,000		

2.19. Avoid mixing distinct characteristics and concepts.

Representing what should be two distinct and unrelated disclosures within one report component should be avoided. For example, many filers represent preferred and common stock together within one report components when two distinct and separate report components are called for.

Avoid this:

<http://www.sec.gov/Archives/edgar/data/896878/000089687812000146/0000896878-12-000146-index.htm>

Period [Axis]	Debt Instrument [Line Items]	Long-term Debt, Type [Axis]					
		Operating Lease Expense [Member]	Purchase Commitment [Member]	Long-term Debt, Type [Domain]			
2011-06-01 - 2012-07-31	Long Term Obligations And Commitments (Textuals)	Debt Instrument [Axis]	Debt Instrument [Axis]	Debt Instrument [Axis]			
		Debt Instrument, Name [Domain]	Debt Instrument, Name [Domain]	5.40 percent fixed-rate notes due 2013 [Member]	5.75 percent fixed-rate notes due 2013 [Member]	Debt Instrument, Name [Domain]	
		Investment Type [Axis]	Investment Type [Axis]	Investment Type [Axis]	Investment Type [Axis]	Investment Type [Axis]	Investment Type [Axis]
		Investment Type, Category [Domain]	Investment Type, Category [Domain]	Investment Type, Category [Domain]	Investment Type, Category [Domain]	Senior Notes [Member]	Investment Type, Category [Domain]
	Senior notes, rate			0	500,000,000		500,000,000
	Interest paid					\$6,000,000	60,000,000
	Cash paid to license technology						10,000,000
	Period for contractual maturities of senior notes						(1,000,000)
	Unamortized discounts on senior notes						
	Amount payable over next ten fiscal years for agreement to license technology						
	Present value of license technology agreement						
	Years lease term can be extended under lease option						
	Operating leases, rent expense						51,000,000
	Reported as:						
	Current portion of long-term debt						499,000,000
	Long-term debt						499,000,000
	Total senior notes						
	Other long term obligations						
	Total license fee payable						\$4,000,000
	Total deferred rent						\$3,000,000
	Long-term deferred revenue						42,000,000
	Long-term income tax liabilities						41,000,000
	Other						5,000,000

The rendering of the rendering engine above is poor because the representation of the information is poor.



Consider this extreme example. Below, a filer uses both the “Finite-lived intangible asset Type [Axis]” and the “Indefinite-lived intangible assets Type [Axis]” on the same report component. A fact can never be both a finite-lived and an indefinite-lived intangible asset.

<http://www.sec.gov/Archives/edgar/data/866273/000086627313000057/0000866273-13-000057-index.htm>

Component: (Network and Table)

Network2404403 - Disclosure - Goodwill and Other Intangible Assets (Details 1)
<http://www.mfraserinvest.com/risk/GoodwillandOtherIntangibleAssetsDetails1>

TableSchedule of Finite-Lived Intangible Assets (Table)

Sliders (Applies to each fact value in each table cell)

Reporting Entity (Asset)0000966273 (<http://www.sec.gov/CIK>)

		Finite-Lived Intangible Assets by Major Class (Axis)																	
		Intellectual Property [Member]			Customer Relationships [Member]			Customer Based [Member]			Noncompetition Agreements [Member]			Trade Names [Member]			Finite-Lived Intangible Assets, Major Class Name [Domain]		
		Indefinite-lived Intangible Assets by Major Class [Axis]			Indefinite-lived Intangible Assets by Major Class [Axis]			Indefinite-lived Intangible Assets by Major Class [Axis]			Indefinite-lived Intangible Assets by Major Class [Axis]			Indefinite-lived Intangible Assets by Major Class [Axis]					
		Indefinite-lived Intangible Assets, Major Class Name [Domain]			Indefinite-lived Intangible Assets, Major Class Name [Domain]			Indefinite-lived Intangible Assets, Major Class Name [Domain]			Indefinite-lived Intangible Assets, Major Class Name [Domain]			Indefinite-lived Intangible Assets, Major Class Name [Domain]					
		Range [Axis]			Range [Axis]			Range [Axis]			Range [Axis]			Range [Axis]					
		Minimum [Member]	Maximum [Member]	Range [Domain]	Minimum [Member]	Maximum [Member]	Range [Domain]	Minimum [Member]	Maximum [Member]	Range [Domain]	Minimum [Member]	Maximum [Member]	Range [Domain]	Minimum [Member]	Maximum [Member]	Range [Domain]			
Period [Axis]	Finite-Lived Intangible Assets [Line Items]																		
2012-07-01 - 2013-06-30	Finite-lived Intangible Assets, Fair Value Disclosure						1,600,000						300,000						
	Carrying value of other intangible assets																		
	Useful life of intangible assets	P5Y	P15Y		P1Y	P15Y		P2Y	P5Y		P5Y		P1Y	P15Y					
	Gross carrying amount			2,460,000						4,250,000		808,000	165,000			7,683,000			
	Accumulated amortization			(753,000)						(942,000)		(287,000)	9			(1,582,000)			
	Net carrying amount			1,707,000						3,308,000		521,000	165,000			6,101,000			
	Indefinite-lived trade names														1,450,000				
	Intangible assets, gross, excluding Goodwill															9,133,000			
	Accumulated amortization - Intangible assets, excluding Goodwill															(1,582,000)			
	Intangible assets, net, excluding Goodwill															7,551,000			
2011-07-01 - 2012-06-30	Finite-lived Intangible Assets, Fair Value Disclosure																		
	Carrying value of other intangible assets																		
	Useful life of intangible assets	P5Y	P15Y		P1Y	P15Y		P2Y	P5Y		P5Y								
	Gross carrying amount			2,460,000						2,687,000		\$47,000				5,464,000			
	Accumulated amortization			(586,000)						(285,000)		(159,000)				(1,030,000)			
	Net carrying amount			1,874,000						2,372,000		388,000				4,434,000			
	Indefinite-lived trade names														1,870,000				
	Intangible assets, gross, excluding Goodwill															7,534,000			
	Accumulated amortization - Intangible assets, excluding Goodwill														x(=nil)	(1,030,000)			

2.20. Recognize need for both automated and manual verification processes.

The processes used for verification of the “true and fair representation” of financial information can take two general forms: automated processes performed using machines and manual processes performed by humans.

Automated verification processes are preferable because they are more reliable and dependable, they take less time, and they cost less than manual processes. Verification can be automated only to the extent rules are provided to verify aspects of a digital financial report. No financial report can be verified 100% using automated processes and therefore manual verification is always necessary.

Verification/validation task	Automatable	Manual
Valid XBRL technical syntax	X	
Edgar Filer Manual (EFM) valid	X	X
Fiscal period, balance sheet date, income statement date valid	X	
Root economic entity (entity of focus) discovered	X	
Fundamental accounting concepts and relations valid	X	
Industry specific accounting concepts and relations valid	X	X
Report level model structure valid	X	
Primary financial statements discovered	X	X
Primary financial statements foot and roll forward appropriately	X	
Required disclosures discovered	X	
Each Level 3 [Text Block] and Level 4 detail disclosure match	X	X
Each Level 4 detail disclosure valid	X	X



Verification/validation task	Automatable	Manual
Current report prior year facts match prior report current year reported facts	X	
Variance from prior periods analysis OK	X	X
Variance analysis from peers OK	X	X
Report-ability rules have been met	X	X
Level 1 footnote disclosures appropriate		X
Level 2 policy text block disclosures appropriate		X
Report element selection appropriate (justifiable/defensible)		X
Reported facts appropriate		X
Consistency with peers appropriate		X
Consistency with prior periods appropriate		X
True and fair representation of financial information of economic entity		X

The following is a set of common verification tasks:

- **Comply with US GAAP:** Clearly a financial report must comply with the rules of US GAAP including SEC rules, industry/activity practices, other common practices, and reporting entity choices where they have such choices.
- **Full inclusion/false inclusion:** Everything which should be disclosed has been disclosed as deemed appropriate by US GAAP, SEC, industry/activity practices, common practices, and reporting entity choices.
- **Foots, cross casts, ticks and ties:** A financial report foots, cross casts, and otherwise “ticks and ties”. All mathematical relations must be intact. As accountants we understand this and many times this fact disappears into our unconsciousness because it is so ingrained into what we do and how we do it. Of course things foot and cross cast; of course the pieces tie together.
- **All financial report formats convey the same message:** A financial report can be articulated using paper and pencil, Microsoft Word, PDF, HTML, XBRL, RDF/OWL, or some other computer readable or computer readable formats. While the format may change, the message communicated, the story you tell, should not change. Each format should communicate the same message, regardless of the medium used to convey your message.
- **Justifiable/defensible report characteristics:** Facts reported and the characteristics which describe those reported facts should be both justifiable and defensible by the reporting entity.
- **Consistency between periods:** Financial information expressed within one reporting period should be consistent with the financial information expressed within subsequent reporting periods, where appropriate. Clearly new information will be added and information which becomes irrelevant will be removed from a financial report. Changes between report elements which existed in both periods should be justifiable and defensible as opposed to arbitrary and random.
- **Consistency with peer group:** If a reporting entity chooses one approach/report element and a peer chooses a different approach/report element; clearly some good, explainable reason should exist for such difference. The judgment of an accountant can determine if the difference is appropriate or not. Differences of opinion can also exist. However, some sort of rational will likely exist for differences or similarities. Because of ambiguity, different conclusions can be reached and each be reasonable and appropriate.



- **Logical representations indicated by understandable renderings:** Renderings of facts; characteristics describe facts; parenthetical explanations which further describe such facts; and other such model structures should make sense and be both consistent with other similar logical structures and logical from the perspective of the technical syntax used to articulate that information. While there may be differences of opinion as to how to format or present such information; there should be significantly less or no dispute about the logic. Disclosures are informational, they relate to information without regard to formatting or other presentational artifacts. Notes relate to organizing disclosures and are presentational in nature. Someone creating a financial report has far more latitude and discretion as to how to organize disclosures into notes than they do as to what must be disclosed.
- **Unambiguous business meaning:** A financial report should be unambiguous to an informed reader. The business meaning of a financial report should be clear/unambiguous to the creator of the financial report and likewise clear/unambiguous to the users of that financial report. Both the creator and users should walk away with the same message or story. A financial report should be usable by regulators, financial institutions, analysts, investors, economists, researchers, and others who desire to make use of the information the report contains.

The following is a set of criteria which is verified using 100% automated processes and the results obtained from the 6,644 SEC XBRL financial filings verified by the processes²²:

#	Goal or Desired State	Process tests	Current State
1	Consistent XBRL technical syntax	Automated XBRL technical syntax error checks	99.9% meet the criteria of consistent XBRL technical syntax rules and are therefore fundamentally readable documents
2	Consistent EDGAR Filer Manual (EFM) syntax/semantics	Automated EFM syntax and semantics error checks	97.9% meet the criteria of specified automatable SEC EDGAR Filer Manual (EFM) rules
3	Consistent report level structure	Automated model structure error checks	99.9% meet the criteria of consistent and unambiguous report level model structure relations
4	Detectable exonomic entity or accounting entity or "root reporting entity" or "entity of focus"	Successful and unambiguous identification of the "entity of focus"	99.2% provide a detectable "root of reporting entity" so that information can be properly discovered using automated processes
5	Detectable and unambiguous current period balance sheet and income statement period dates	Successful and unambiguous identification of the current balance sheet date and income statement period	99.3% provide a detectable and unambiguous current balance sheet date
6	Detectable and unambiguous set of fundamental reported facts and intact relations between those fundamental facts which prove trustworthy nature of information	Automated verification checks to be sure fundamental accounting concepts are distinguishable/decipherable and the relations between those fundamental concepts are intact/sound	97.8% consistently report or provide enough information to impute 51 fundamental accounting concepts and those concepts consistently adhere to 21 basic accounting relationships
7	Detectable basic primary financial statement roll up computations are intact which prove trustworthy nature of information	Automated verification checks for existence of business rules which articulate these basic primary financial statement relations and successful passing of these business rules	90.1% provide detectable roll up rules for balance sheet, income statement, cash flow statement

²² *Understanding the Minimum Processing Tests*,
<http://www.xbrlsite.com/2014/Library/UnderstandingMinimumProcessSteps-2014-02-14.pdf>



2.21. Recognize that concepts cannot be moved between fundamental accounting concept categories.

Concepts defined as one class of financial reporting concept by the US GAAP XBRL Taxonomy cannot be redefined to be within some other class of financial reporting concept. For example, a “nonoperating income (expense)” concept cannot be used as an “operating income (expense) concept.”

While the US GAAP XBRL Taxonomy does not explicitly or formally “map” each taxonomy concept to a fundamental concept (i.e. define class-subclass relations), the relations are implicit. Both the presentation relations, but more likely the calculation relations which exist in the taxonomy implicitly articulate this information.

Each concept created within a reporting entity taxonomy should be associated with some fundamental accounting concept. For example, all concepts defined which are an asset should be specifically defined as such using perhaps a “class-subclass” type relation or the existing “general-special” relation defined by XBRL.

This can be achieved using the XBRL definition linkbase.

[CSH: This needs to be reworked, but I don't want to lose this idea.]

Here is an example of a violation of the use of a fundamental accounting concept. The summary of the situation is that Procter & Gamble uses the concept “us-gaap:LiabilitiesNoncurrent” to express not the total of noncurrent liabilities like 99.9% of SEC filers do who provide that balance sheet line item and not like the US GAAP XBRL taxonomy clearly specifies that item; rather Procter & Gamble uses that concept to express what they have labeled in their filing “Other Non-Current Liabilities”. They do provide “Total Liabilities, Noncurrent” using the concept “us-gaap:OtherLiabilitiesNoncurrent”; however, that concept also uses an incorrect concept. This line item also is not on the balance sheet.

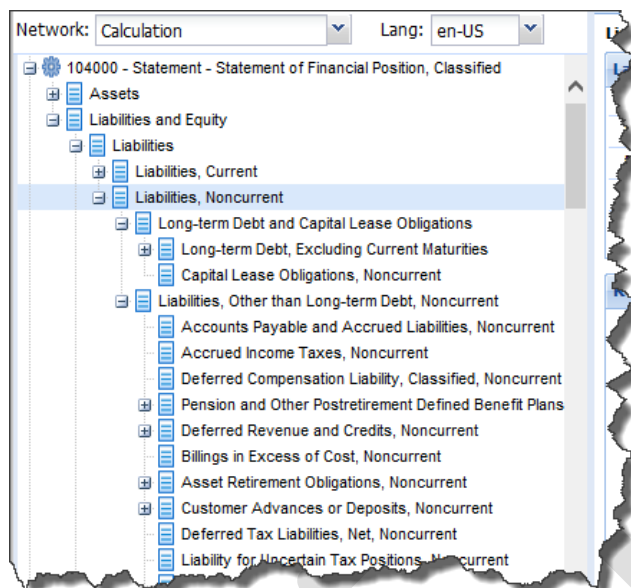
This is the Procter & Gamble XBRL submission:
<http://www.sec.gov/Archives/edgar/data/80424/000008042413000063/pg-20130630.xml>

This will let you look at the submission using the XBRL Cloud Viewer:

<https://edgardashboard.xbrlcloud.com/flex/viewer/XBRLViewer.html#instance=http://www.sec.gov/Archives/edgar/data/80424/000008042413000063/pg-20130630.xml>

US GAAP XBRL Taxonomy shows relations for “us-gaap:LiabilitiesNoncurrent” as being part of “us-gaap:Liabilities” (i.e. Current liabilities + Noncurrent liabilities = Total liabilities) [http://xbrlview.fasb.org/yeti/resources/yeti-gwt/Yeti.jsp#tax~\(id~52*v~3033\)!con~\(id~3131628\)!net~\(a~1059*I~254\)!lang~\(code~en-us\)!path~\(g~37123*p~1_0_1\)!rg~\(rg~32*p~12\)](http://xbrlview.fasb.org/yeti/resources/yeti-gwt/Yeti.jsp#tax~(id~52*v~3033)!con~(id~3131628)!net~(a~1059*I~254)!lang~(code~en-us)!path~(g~37123*p~1_0_1)!rg~(rg~32*p~12))





Liabilities, Noncurrent		
Labels		
Type	Lang	Label
Standard Label	en-US	Liabilities, Noncurrent
Documentation	en-US	Amount of obligation due after one year or beyond the normal operating cycle, if longer.
Total Label	en-US	Liabilities, Noncurrent, Total
Change Label 2013	en-US	[2012-05] (Modified Documentation Label. Originally read as follows: Total obligation following twelve months or one business cycle.)
References		
Properties		
Property	Value	
Name	LiabilitiesNoncurrent	
Namespace	http://fasb.org/us-gaap/2013-01-31	
Data Type	xbrli:monetaryItemType	
XBRL Type	monetaryItemType	
Substitution Group	xbrli:item	
Period Type	instant	
Abstract	false	
Nullable	true	

SEC Interactive Data Viewer:

SUPPLEMENTAL FINANCIAL INFORMATION Other Liabilities (Details) (USD \$)		
In Millions, unless otherwise specified	Jun. 30, 2013	Jun. 30, 2012
OTHER NONCURRENT LIABILITIES		
Pension benefits	\$ 6,027	\$ 5,684
Other postretirement benefits	1,713	3,270
Uncertain tax positions	2,002	2,245
Other Non-Current Liabilities	837	891

- Definition	
Total obligations incurred as part of normal operations that is expected to be repaid beyond the following twelve months or one business cycle.	
+ References	
- Details	
Name:	us-gaap_LiabilitiesNoncurrent
Namespace Prefix:	us-gaap
Data Type:	xbrli:monetaryItemType
Balance Type:	credit
Period Type:	instant

XBRL Cloud Viewer showing balance sheet:



DIGITAL FINANCIAL REPORTING PRINCIPLES (DRAFT)

Reporting Entity [Axis]	0000080424 (http://www.sec.gov/CIK)	
Legal Entity [Axis]	Entity (Domain)	
	Period [Axis]	
	2013-06-30	2012-06-30
	Class of Stock [Axis]	Class of Stock [Axis]
	Class of Stock [Domain]	Class of Stock [Domain]
Statement [Line Items]		
Assets		
CURRENT ASSETS		
Cash and cash equivalents	5,947,000,000	4,436,000,000
Accounts receivable		
INVENTORIES		
Materials and supplies		
Work in process		
Finished goods		
Total inventories		
Deferred income taxes		
Prepaid expenses and other current assets		
TOTAL CURRENT ASSETS		
NET PROPERTY, PLANT AND EQUIPMENT		
Goodwill, Net		
Trademarks and other intangible assets, net		
OTHER NONCURRENT ASSETS		
TOTAL ASSETS		
Liabilities and Shareholders' Equity		
CURRENT LIABILITIES		
Accounts payable	8,777,000,000	7,920,000,000
Accrued and other liabilities	8,828,000,000	8,289,000,000
Debt due within one year	12,432,000,000	8,698,000,000
TOTAL CURRENT LIABILITIES	30,037,000,000	24,907,000,000
LONG-TERM DEBT	19,111,000,000	21,080,000,000
DEFERRED INCOME TAXES	10,827,000,000	10,132,000,000
OTHER NONCURRENT LIABILITIES	10,579,000,000	12,090,000,000
TOTAL LIABILITIES	70,554,000,000	68,209,000,000

Report Element	
Properties	Occurrences
Documentation:	Aggregate carrying amount, as of the balance sheet date, of noncurrent obligations not separately disclosed in the balance sheet. Noncurrent liabilities are expected to be paid after one year (or the normal operating cycle, if longer).
Report Element Class	Concept
Prefix (From Taxonomy)	us-gaap
Balance Type	Credit
Period Type	As Of (instant)
Data Type	Monetary (xbrl:monetaryItemType)
Name	us-gaap:OtherLiabilitiesNoncurrent
ID	us-gaap_OtherLiabilitiesNoncurrent

Disclosure of "Other Liabilities" using XBRL Cloud Viewer:

File View Window Help

PROCTER & GAMBLE CO (10-K)2403405 - Disclosure - SUPPLEMENTAL FINANCIAL INFORMATION Other Liabilities (Details)SUPPLEMENTAL FINANCIAL INFORMATION Other I

Components

AMORTIZATION EXPENSE (DETAILS)GOODWILL AND INTANGIBLE ASSETS - ESTIMATED AMORTIZATION EXPENSE (DETAILS) [Table]

2403402 - Disclosure - SUPPLEMENTAL FINANCIAL INFORMATION (DETAILS)Schedule of Restructuring and Related Costs [Table]

2403403 - Disclosure - SUPPLEMENTAL FINANCIAL INFORMATION SUPPLEMENTAL FINANCIAL INFORMATION - Additional Information (Details)Schedule of Restructuring and Related Costs [Table]

2403404 - Disclosure - SUPPLEMENTAL FINANCIAL INFORMATION Schedule of Property, Plant & Equipment (Details)Schedule of Property, Plant and Equipment [Table]

2403405 - Disclosure - SUPPLEMENTAL FINANCIAL INFORMATION Other Liabilities (Details)SUPPLEMENTAL FINANCIAL INFORMATION Other Liabilities (Details) [Table]

2404402 - Disclosure - SHORT-TERM AND LONG-TERM DEBT - SHORT-TERM DEBT (DETAILS)Statement [Table]

2404403 - Disclosure - SHORT-TERM AND LONG-TERM DEBT - LONG-TERM DEBT (DETAILS)Statement [Table]

2404404 - Disclosure - SHORT-TERM AND LONG-TERM DEBT - LONG-TERM DEBT MATURITIES (DETAILS)Statement [Table]

Rendering

Reporting Entity [Axis]

0000080424 (http://www.sec.gov/CIK)

Period [Axis]

Period [Axis]

Other Liabilities Disclosure [Abstract]

2013-06-30

2012-06-30

Other Liabilities Disclosure [Abstract]

OTHER NONCURRENT LIABILITIES

Pension benefits

6,027,000,000

5,684,000,000

Other postretirement benefits

1,713,000,000

3,270,000,000

Uncertain tax positions

2,002,000,000

2,245,000,000

Other Non-Current Liabilities

837,000,000

891,000,000

Total Liabilities, Noncurrent

10,579,000,000

12,090,000,000

ACCRUED AND OTHER LIABILITIES - CURRENT

Marketing and promotion

Compensation expenses

Restructuring Reserve

Taxes payable

Legal and environmental

Other

TOTAL

Report Element

Properties

Occurrences

Documentation:

Total obligations incurred as part of normal operations that is expected to be repaid beyond the following twelve months or one business cycle.

Report Element Class

Concept

Prefix (From Taxonomy)

us-gaap

Balance Type

Credit

Period Type

As Of (instant)

Data Type

Monetary (xbrl:monetaryItemType)

Name

us-gaap:LiabilitiesNoncurrent

ID

us-gaap_LiabilitiesNoncurrent

Labels of Report Element

From

Role

Label

Lang



Total Liabilities, Noncurrent:

Reporting Entity [Axis]	0000080424 (http://www.sec.gov/CIK)		Period [Axis]
Other Liabilities Disclosure [Abstract]	2013-06-30	2012-06-30	
Other Liabilities Disclosure [Abstract]			
OTHER NONCURRENT LIABILITIES			
Pension benefits	6,027,000,000	5,684,000,000	
Other postretirement benefits	1,713,000,000	3,270,000,000	
Uncertain tax positions	2,002,000,000	2,245,000,000	
Other Non-Current Liabilities	837,000,000	891,000,000	
Total Liabilities, Noncurrent	10,579,000,000	12,090,000,000	
ACCRUED AND OTHER LIABILITIES - CURRENT			
Marketing and promotion			
Compensation expenses			
Restructuring Reserve			
Taxes payable			
Legal and environmental			
Other			
TOTAL			

Report Element	
Properties	Occurrences
Documentation:	Aggregate carrying amount, as of the balance sheet date, of noncurrent obligations not separately disclosed in the balance sheet. Noncurrent liabilities are expected to be paid after one year (or the normal operating cycle, if longer).
Report Element Class	Concept
Prefix (From Taxonomy)	us-gaap
Balance Type	Credit
Period Type	As Of (instant)
Data Type	Monetary (xbrli:monetaryItemType)
Name	us-gaap:OtherLiabilitiesNoncurrent
ID	us-gaap_OtherLiabilitiesNoncurrent
Labels of Report Element	

Fundamental accounting concept validation shows that 99.9% of SEC XBRL filers use the concept "us-gaap:LiabilitiesNoncurrent" to represent "Total noncurrent liabilities", not a detailed component within total noncurrent liabilities (as Procter & Gamble did):

Test	Fundamental accounting relationship (business rule)	Total set	No root entity	Exclude	Total set	Pass test	Percent	Comments	Fail test
B51	Equity = EquityAttributableToParent + EquityAttributableToNoncontrollingInterest	7,160	58	0	7,102	7,003	98.6%		99
B52	Assets = LiabilitiesAndEquity	7,160	58	0	7,102	7,061	99.4%		41
B53	Assets = CurrentAssets + NoncurrentAssets	7,160	58	1,631	5,471	5,469	100.0%	Not all filers have classified balance sheets. Unclassified balance sheets excluded.	2
B54	Liabilities = CurrentLiabilities + NoncurrentLiabilities	7,160	58	1,631	5,471	5,467	99.9%	Not all filers have classified balance sheets. Unclassified balance sheets excluded.	4
B55	LiabilitiesAndEquity = Liabilities + CommitmentsAndContingencies + TemporaryEquity + Equity	7,160	58	0	7,102	6,807	95.8%		293
IS1	GrossProfit = Revenues - CostOfRevenue	7,160	412	3,403	3,345	2,946	88.1%	Not all filers use multi-step income statement. Exclude overlapping statements using concept	399

2.22. Avoid unknowingly changing information representation approach midstream.

Avoid changing from a [Line Items]-based representation approach to a [Member]-based representation approach within a report component. Consistently apply one approach for the entire report component.

For example, a significant number of SEC XBRL financial filings represent every balance sheet items using Concepts within a set of [Line Items]. And then the representation approach is changed in order to represent common stock. This causes an inability to express roll up computations consistently with all other roll up business rules and indicates a flawed representation approach.



This screen shot below shows changing the representation approach used on the balance sheet where Concepts are used to represent balance sheet items and then the creator switches to using [Member]s to express common stock information. This results in a representation which is hard to use and XBRL calculation errors.

Balance Sheet [Line Items]	Period [Axis]					
	2010-12-31			2009-12-31		
	Class of Stock [Axis]			Class of Stock [Axis]		
	Class A Common Stock [Member]	Class B Common Stock [Member]	Class of Stock [Domain]	Class A Common Stock [Member]	Class B Common Stock [Member]	Class of Stock [Domain]
ASSETS [Roll Up]						
CURRENT ASSETS [Roll Up]						
Cash and cash equivalents			11,000,000			10,000,000
Restricted cash			1,000,000			1,000,000
Short term investments			1,000,000			2,000,000
Accounts receivable, net of allowance for doubtful accounts of \$1,000 and \$1,000			29,000,000			29,000,000
Inventories			4,000,000			4,000,000
Prepaid expenses			8,000,000			8,000,000
Other current assets			2,000,000			2,000,000
Total current assets			56,000,000			56,000,000
NONCURRENT ASSETS [Roll Up]						
Property, plant and equipment, net			9,000,000			9,000,000
Other noncurrent assets			82,000,000			82,000,000
Total noncurrent assets			91,000,000			91,000,000
Total assets			147,000,000			147,000,000
LIABILITIES AND EQUITY [Roll Up]						
LIABILITIES [Roll Up]						
CURRENT LIABILITIES [Roll Up]						
Accounts payable and accrued expenses			7,000,000			7,000,000
Current portion of long-term debt			22,000,000			22,000,000
Other current liabilities			26,000,000			26,000,000
Total current liabilities			55,000,000			55,000,000
NONCURRENT LIABILITIES [Roll Up]						
Accounts payable and accrued expenses			1,000,000			1,000,000
Long-term debt			19,000,000			19,000,000
Other noncurrent liabilities			32,000,000			33,000,000
Total noncurrent liabilities			52,000,000			53,000,000
Total liabilities			107,000,000			108,000,000
Commitments and contingencies						
STOCKHOLDERS' EQUITY [Roll Up]						
Preferred stock, Class A, \$1 par, 10,000 shares authorized, issued and outstanding; redemption amount \$5,000, liquidation preference \$10,000, conversion basis Tincidunt cursus est			10,000,000			10,000,000
Common stock, Class A and Class B, \$1 par, 110,000 shares authorized (Class A 60,000, Class B 50,000), 90,000 shares issued and outstanding (Class A 50,000, Class B 40,000)	10,000,000	10,000,000		10,000,000	10,000,000	
Additional paid in capital			1,000,000			1,000,000
Treasury stock, share value \$1, 10,000 shares, restrictions are Cursus est ullamcorper vel sollicitudin lacus			2,000,000			2,000,000
Retained earnings			6,000,000			6,000,000
Accumulated other comprehensive income, net of tax			5,000,000			4,000,000
Stockholders' equity			40,000,000			39,000,000
Total liabilities and stockholders' equity			147,000,000			147,000,000



2.23. Avoid inconsistencies in network identification.

When a report component is represented, the XBRL presentation relations, XBRL calculation relations, and XBRL definition relations related to that report component should have the same network naming (i.e. identifier, number, sort category, and title). There is no reason to name report component pieces with differently/inconsistently (i.e. using different networks).

Saying this another way; if you use the network identifier <http://www.myCompany.com/role/BalanceSheet> on the presentation relations, <http://www.myCompany.com/role/BalanceSheet2> on the calculation relations, and <http://www.myCompany.com/role/BalanceSheet3> on the definition relations; software will not understand that those pieces go together and work together because it has no way of understanding that they go together. Whereas if the presentation relations, calculation relations, and definition relations all use the same network identifier <http://www.myCompany.com/role/BalanceSheet> software will understand that the pieces go together.

Bottom line: use the same network identifier and network name for all relations expressed and business rules expressed for a report component.

2.24. Recognize that characteristics apply to all reported facts within a report component.

Recognize that a characteristic expressed via an [Axis] within a report component applies to every concept within that report component. And so if a "Class of Stock [Axis]" exists on a balance sheet, you are saying that "Cash and Cash Equivalents", "Inventories", and all the other balance sheet items have a characteristic related to a class of stock.

Avoid doing this:

<http://www.sec.gov/Archives/edgar/data/1487685/000138713112000988/0001387131-12-000988-index.htm>

Statement [Line Items]	Period [Axis]													
	2011-12-31						2010-12-31							
	Class of Stock [Axis]						Class of Stock [Axis]							
	Series A-1 Preferred Stock	Series A-2 Preferred Stock	Series A-1 Preferred Warrant	Series A-2 Preferred Warrant	Series A-1 Common Stock	Series A-2 Common Stock	Class of Stock [Domain]	Series A-1 Preferred Stock	Series A-2 Preferred Stock	Series A-1 Preferred Warrant	Series A-2 Preferred Warrant	Series A-1 Common Stock	Series A-2 Common Stock	Class of Stock [Domain]
Allowance for doubtful accounts - accounts receivable gaming							282,000							1,931,000
Allowance for doubtful accounts - accounts receivable other							101,000							151,000
Accumulated amortizations - financing fees							5,086,000							1,680,000
Accumulated amortizations - rated player relationships							20,700,000							6,900,000
Preferred stock par value	0.01	0.01						0.01	0.01					
Preferred stock shares authorized	1,688,268	645,065						1,688,268	645,065					
Preferred stock shares issued	1,463,535	162,255						1,463,535	162,255					
Preferred stock shares outstanding	1,463,535	162,255						1,463,535	162,255					
Preferred warrants par value			0.01	0.01						0.01	0.01			
Preferred warrants shares issued			202,511	460,587						202,511	460,587			
Preferred warrants shares outstanding			202,511	460,587						202,511	460,587			
Common stock par value					0.01	0.01						0.01	0.01	
Common stock shares authorized					4,354,935	645,065						4,354,935	645,065	
Common stock shares issued					142,423	xsi:nil						140,291	xsi:nil	
Common stock shares outstanding					142,423	xsi:nil						140,291	xsi:nil	

There are two things inappropriate about the above example. First, three discrete pieces are all run together which makes the information harder to read. Second, information about the allowance for doubtful accounts has a "Class of Stock [Axis]" and is associated with the "Class of Stock [Domain]" which makes no sense. A good clue that this representation is a mistake is all the empty cells that you see. Notice the four distinct groups of information for each period. Those groups are things which do go together.



Better practice is this: <http://goo.gl/4Q0cQh>

Balance Sheet Parenthetical [Line Items]	Period [Axis]	
	2010-12-31	2009-12-31
Balance Sheet Parenthetical [Hierarchy]		
Accounts receivable, allowance	7,000,000	6,000,000

Preferred Stock Information, by Class [Line Items]	Period [Axis]					
	2010-12-31			2009-12-31		
	Class of Stock [Axis]			Class of Stock [Axis]		
	Class A Preferred Stock [Member]	Class B Preferred Stock [Member]	Class of Stock [Domain]	Class A Preferred Stock [Member]	Class B Preferred Stock [Member]	Class of Stock [Domain]
Class of Preferred Stock [Hierarchy]						
Preferred stock, par value per share	1	1		1	1	
Preferred stock, shares authorized	20,000	20,000		20,000	20,000	
Preferred stock, shares issued	20,000	20,000		20,000	20,000	
Preferred stock, shares outstanding	20,000	20,000		20,000	20,000	
Preferred stock, value outstanding	10,000,000	10,000,000	20,000,000	10,000,000	10,000,000	20,000,000

Common Stock Information, by Class [Line Items]	Period [Axis]					
	2010-12-31			2009-12-31		
	Class of Stock [Axis]			Class of Stock [Axis]		
	Class A Common Stock [Member]	Class B Common Stock [Member]	Class of Stock [Domain]	Class A Common Stock [Member]	Class B Common Stock [Member]	Class of Stock [Domain]
Class of Common Stock [Hierarchy]						
Common stock, par value per share	1	1		1	1	
Common stock, shares authorized	60,000	50,000		60,000	50,000	
Common stock, shares issued	50,000	40,000		50,000	40,000	
Common stock, shares outstanding	50,000	40,000		50,000	40,000	
Common stock, value outstanding	10,000,000	10,000,000	20,000,000	10,000,000	10,000,000	20,000,000

Notice how if the accounts receivables allowance, the preferred stock information, and the common stock information are separated it makes all the information easier to read each of those representations. There are not a lot of empty cells.

2.25. Recognize that rendering engines render presentation differently but the meaning is the same across all rendering engines.

Rendering engines render information from a digital financial report differently, however the meaning of the information is the same across all rendering engines. Why? The meaning of the information is specified within the XBRL technical specification and is not open to interpretation to the extent that that meaning is specified.

Why should you care about this? Well, SEC filers should be less concerned about how their information is presented within the SEC interactive data viewer because that is not how most people will be using that information. If investors and analyst want to read the information they will use the HTML version of the report. Information will most likely be used in iPhone applications, iPad applications, analysis tools, Excel or other digital representation.

This is why the representation of the information is more critical to watch over than the presentation of the information.



2.26. Number of members in reported set does not change the characteristics of a reported fact.

When information is represented, the number of [Member]s of a characteristic does not change the representation approach. Whether that set of [Member]s has 5 members, or 3, or only 1; the representation approach does not change.

For example, characteristic information which describes classes of common stock does not change if there is one, two, three, or many other classes of stock. The number of [Member]s may change; but the characteristics of the class of stock information does not change.

Avoid doing this: <http://goo.gl/T2bisk>

Common Stock Information, by Class [Line Items]	Period [Axis]	
	2010-12-31	2009-12-31
Class of Common Stock [Hierarchy]		
Common stock, par value per share	1	1
Common stock, shares authorized	60,000	60,000
Common stock, shares issued	50,000	50,000
Common stock, shares outstanding	50,000	50,000
Common stock, value outstanding	10,000,000	10,000,000

Note that there is no "Class of Stock [Axis]" and therefore no "Class A Common Stock [Member]" to explicitly identify.

Better practice is this (even with only one member): <http://goo.gl/qhRzF7>

Common Stock Information, by Class [Line Items]	Period [Axis]			
	2010-12-31		2009-12-31	
	Class of Stock [Axis]		Class of Stock [Axis]	
	Class A Common Stock [Member]	Class of Stock [Domain]	Class A Common Stock [Member]	Class of Stock [Domain]
Class of Common Stock [Hierarchy]				
Common stock, par value per share	1		1	
Common stock, shares authorized	60,000		60,000	
Common stock, shares issued	50,000		50,000	
Common stock, shares outstanding	50,000		50,000	
Common stock, value outstanding	10,000,000	10,000,000	10,000,000	10,000,000

Notice how in the rendering above that (a) there is one class of stock, (b) that information is explicit and not implied, (c) there is a total for ALL classes of stock which so happens to be the same as the one class because there is only one class of stock.

Contrast the above to this (when you have two members this is the proper representation; why would you not provide the [Axis] if there is only one [Member]?)

See: <http://goo.gl/po3UtR>

Common Stock Information, by Class [Line Items]	Period [Axis]					
	2010-12-31			2009-12-31		
	Class of Stock [Axis]			Class of Stock [Axis]		
	Class A Common Stock [Member]	Class B Common Stock [Member]	Class of Stock [Domain]	Class A Common Stock [Member]	Class B Common Stock [Member]	Class of Stock [Domain]
Class of Common Stock [Hierarchy]						
Common stock, par value per share	1	1		1	1	
Common stock, shares authorized	60,000	50,000		60,000	50,000	
Common stock, shares issued	50,000	40,000		50,000	40,000	
Common stock, shares outstanding	50,000	40,000		50,000	40,000	
Common stock, value outstanding	10,000,000	10,000,000	20,000,000	10,000,000	10,000,000	20,000,000



Now a second class of stock is added. Compare this with both the “Avoid doing this” and the “Better practice is this” examples and you begin to see why the better practice is better. Further, if you look at the XBRL Formulas which support the representation, the formula does not change at all between 1 class of stock, 2 classes, and would not change if there were 50 classes of stock. That is additional evidence that this is a better representation approach.

2.27. Label networks with meaningful information.

When describing what is contained in your digital financial report, avoid terms which don’t allow a user of the information to understand what that section of the report contains. For example, avoid the use of “Detail”, “Detail 1”, “Detail 2”, “Detail 3” as is shown below:

http://www.sec.gov/cgi-bin/viewer?action=view&cik=888491&accession_number=0001188112-13-000515&xbrl_type=v#

Cover	Document and Entity Information (USD \$)	12 Months Ended		
Document and Entity Information		Dec. 31, 2012	Feb. 22, 2013	Jun. 30, 2012
Financial Statements	Document and Entity Information [Abstract]			
Notes to Financial Statements	Entity Registrant Name	OMEGA HEALTHCARE INVESTORS INC		
Accounting Policies	Entity Central Index Key	0000888491		
Notes Tables	Trading Symbol	ohi		
Notes Details	Entity Current Reporting Status	Yes		
	Entity Voluntary Filers	No		
	Current Fiscal Year End Date	--12-31		
	Entity Filer Category	Large Accelerated Filer		
	Entity Well-Known Seasoned Issuer	Yes		
ORGANIZATION AND BASIS OF PRESENTATION (Narrative) (Detail)	Entity Common Stock Shares Outstanding	112,971,775		
SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Detail)	Entity Public Float	\$ 2,425,939,178		
SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Narrative) (Detail)	Document Type	10-K		
SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Narrative) (Detail 1)	Document Period End Date	Dec. 31, 2012		
SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Narrative) (Detail 1)	Amendment Flag	false		
SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Narrative) (Detail 1)	Document Fiscal Year Focus	2012		
SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Narrative) (Detail 1)	Document Fiscal Period Focus	FY		
PROPERTIES (Detail)				
PROPERTIES (Detail 1)				
PROPERTIES (Detail 2)				
PROPERTIES (Detail 3)				
PROPERTIES - Leased Property (Narrative) (Detail)				
PROPERTIES - Genesis Healthcare (Narrative) (Detail)				

Rather, use descriptive titles which accurately describe information contained in that section and help the user of the information understand what the section contains.