Managing and Controlling Variability in XBRL-based Financial Reports

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Preventing "Wild Behavior"

- What prevents "wild behavior" of accountants creating XBRL-based financial reports?
- What, specifically, "wild behaviors" need to be prevented?
- What is the role of an XBRL taxonomy in preventing "wild behaviors" of those creating XBRL-based financial reports?
- There are thousands and thousands of small details that work together to constitute what amounts to the logical system that is a financial report.
- The more of those details that can be managed using automated machinebased processes the fewer of those details that need to be monitored by humans.
- Humans make mistakes. Machines don't make mistakes, that is why they are referred to as "machines".

Forms.

- Forms are easy to control
- Why?

(BSC)

- No flexibility.
- No variability.
- Put numbers into cells.
- Have a formula that checks the math.
- Imagine filling in the information on the right if nothing ever changed.

Network	1001 - Statement - Balance Sheet (http://xasb.org/gaap/role/statement/lev	el4/BalanceSheetClassified)
Table	Balance Sheet Classified [Table]	
Reporting Entity [Aspect]	http://regulator.gov/id#12345678	890
Legal Entity [Aspect]	Consolidated Entity [Member]	
	Period [
Line Items [Aspect]	2020-12-31	2019-12-31
Assets [Roll Up]		
Current Assets [Roll Up]		
Cash and Cash Equivalents	118,986,000	86,365,000
Receivables	19,792,000	18,277,000
Inventories	4,897,000	5,892,000
Current Assets, Total	143,675,000	110,534,000
Noncurrent Assets [Roll Up]		
Property, Plant and Equipment	23,734,000	18,356,000
Other Noncurrent Assets	6,250,000	3,416,000
Noncurrent Assets, Total	29,984,000	21,772,000
Assets, Total	173,659,000	132,306,000
Liabilities and Equity [Roll Up]		
Liabilities [Roll Up]		
Current Liabilities [Roll Up]		
Accounts Payable and Accrued Expenses	7,390,000	6,898,000
Current Portion of Long-term Debt	1,049,000	751,000
Current Liabilities, Total	8,439,000	7,649,000
Noncurrent Liabilities [Roll Up]		
Long-term Debt	76,073,000	40,557,000
Other Noncurrent Liabilities	17,184,000	13,640,000
Noncurrent Liabilities, Total	93,257,000	54,197,000
Liabilities, Total	101,696,000	61,846,000
Equity [Roll Up]		
Common Stock	69,315,000	68,178,000
Retained Earnings (Accumulated Deficit)	2,648,000	2,282,000
Equity, Total	71,963,000	70,460,000
Liabilities and Equity, Total	173,659,000	132,306,000

Financial Statements are Not Forms.

- Classified balance sheet (BSC)
- Properties:
 - Two [Roll Up]s; "Assets" and "Liabilities and Equity".
 - Two roll ups MUST always agree per the accounting equation, i.e. "Assets = Liabilities and Equity"
 - Concept "gaap:Assets" will ALWAYS be the total of the "Assets [Roll Up]"
 - Concept "gaap:LiabilitiesAndEquity" will always be the total of the "Liabilities and Equity [Roll Up]"
 - How do you prevent a current asset from being used to represent a noncurrent asset?

Network	1001 - Statement - Balance Sheet	
Table	(http://xasb.org/gaap/role/statement/level4/BalanceSheetClassified) Balance Sheet Classified [Table]	
Table		
Reporting Entity [Aspect]	http://regulator.gov/id#12345678	390
Legal Entity [Aspect]	Consolidated Entity [Member]	
	Period [Aspect]	
Line Items [Aspect]	2020-12-31	2019-12-31
Assets [Roll Up]		
Current Assets [Roll Up]		
Cash and Cash Equivalents	118,986,000	86,365,000
Receivables	19,792,000	18,277,000
Inventories	4,897,000	5,892,000
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Equity, Total	71,963,000	70,460,000
Liabilities and Equity, Total	173,659,000	132,306,000

But What if Financial Statements had Patterns?

- Unclassified balance sheet (BSU)
- Properties:

(BSN)

- Two [Roll Up]s; "Assets" and "Liabilities and Equity".
- Two roll ups MUST always agree per the accounting equation, i.e. "Assets = Liabilities and Equity"
- Concept "gaap:Assets" will ALWAYS be the total of the "Assets [Roll Up]"
- Concept "gaap:LiabilitiesAndEquity" will always be the total of the "Liabilities and Equity [Roll Up]"
- Does NOT contain current assets or liabilities

Network	1001 - Statement - Balance Sheet (http://xasb.org/gaap/role/statement/level4/BalanceSheetUnclassified)	
Table	Balance Sheet Unclassified [Table]	
Reporting Entity [Aspect]	http://regulator.gov/id#12345678	890
Legal Entity [Aspect]	Consolidated Entity [Member]	
	Period [Aspect]	
Line Items [Aspect]	2020-12-31	2019-12-3
Assets [Roll Up]		
Cash and Cash Equivalents	118,986,000	86,365,00
Receivables	19,792,000	18,277,00
Inventories	4,897,000	5,892,00
Property, Plant and Equipment	23,734,000	18,356,00
Other Assets	6,250,000	3,416,00
Assets, Total	173,659,000	132,306,00
Liabilities and Equity [Roll Up]		
Liabilities [Roll Up]		
Accounts Payable and Accrued Expenses	7,390,000	6,898,00
Long-term Debt	77,122,000	41,308,00
Other Liabilities	17,184,000	13,640,00
Liabilities, Total	101,696,000	61,846,00
Equity [Roll Up]		
Common Stock	69,315,000	68,178,00
Retained Earnings (Accumulated Deficit)	2,648,000	2,282,00
Equity, Total	71,963,000	70,460,00
Liabilities and Equity, Total	173,659,000	132,306,00

What if you could describe the model of each balance sheet?

- Liquidation basis balance sheet (BSL)
- Properties:

(BSL)

- ONE roll up, "Net Assets [Roll Up]".
- Concept "gaap:NetAssets" will ALWAYS be the total of the roll up.
- Each disclosure is uniquely described.

Network	1001 - Statement - Balance Sheet (http://xasb.org/gaap/role/statement/level4/LiquidationBasisBalanceSheet)	
Table	Balance Sheet Liquidation Basis [Table]	
Reporting Entity [Aspect]	http://regulator.gov/id#12345678	890
Legal Entity [Aspect]	Consolidated Entity [Member]	
	Period [Aspect]	
Line Items [Aspect]	2020-12-31	2019-12-31
Assets [Roll Up]		
Current Assets [Roll Up]		
Cash and Cash Equivalents	118,986,000	86,365,000
Receivables	19,792,000	18,277,000
Inventories	4,897,000	5,892,000
Current Assets, Total	143,675,000	110,534,000
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Assets, Total	173,659,000	132,306,000
Liabilities [Roll Up]		
Current Liabilities [Roll Up]		
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Current Liabilities, Total	8,439,000	7,649,000
Noncurrent Liabilities [Roll Up]		
Long-term Debt	76,073,000	40,557,000
Other Noncurrent Liabilities	17,184,000	13,640,000
Noncurrent Liabilities, Total	93,257,000	54,197,000
Liabilities, Total	101,696,000	61,846,000
Net Assets	71,963,000	70,460,000

Is this the same as the first balance sheet?

- Classified balance sheet (BS1')
- Noncurrent assets and liabilities are not explicitly reported.
- What if this economic entity used the concept

"gaap:NoncurrentAssets" to report geographic area information in a disclosure and used the value \$300,000 for the current period?

- (i.e. the entity should have used the concept "gaap:LongLivedAssets")
- How do you prevent this sort of error? Manually check every detail?

Network	1001 - Statement - Balance Sheet (http://xasb.org/gaap/role/statement/lev	el4/BalanceSheetClassified)
Table	Balance Sheet Classified [Table]	
Reporting Entity [Aspect]	http://regulator.gov/id#12345678	890
Legal Entity [Aspect]	Consolidated Entity [Member]	
	Period [Aspect]	
Line Items [Aspect]	2020-12-31	2019-12-31
Assets [Roll Up]		
Current Assets [Roll Up]		
Cash and Cash Equivalents	118,986,000	86,365,000
Receivables	19,792,000	18,277,000
Inventories	4,897,000	5,892,000
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Liabilities and Equity [Roll Up]		
Liabilities [Roll Up]		
Current Liabilities [Roll Up]		
Accounts Payable and Accrued Expenses	7,390,000	6,898,000
Current Portion of Long-term Debt	1,049,000	751,000
Current Liabilities, Total	8,439,000	7,649,000
Long-term Debt	76,073,000	40,557,000
Other Noncurrent Liabilities	17,184,000	13,640,000
Liabilities, Total	101,696,000	61,846,000
Equity [Roll Up]		
Common Stock	69,315,000	68,178,000
Retained Earnings (Accumulated Deficit)	2,648,000	2,282,000
Equity, Total	71,963,000	70,460,000
Liabilities and Equity, Total	173,659,000	132,306,000

(BSC')

Classified Balance Sheet #1 (BSC)

Network	1001 - Statement - Balance Sheet (http://xasb.org/gaap/role/statement/lev	vel4/BalanceSheetClassified)
Table	Balance Sheet Classified [Table]	
Reporting Entity [Aspect]	http://regulator.gov/id#12345678	890
Legal Entity [Aspect]	Consolidated Entity [Member]	
	Period [Aspect]	
Line Items [Aspect]	2020-12-31	2019-12-31
Assets [Roll Up]		
Current Assets [Roll Up]		
Cash and Cash Equivalents	118,986,000	86,365,000
Receivables	19,792,000	18,277,000
Inventories	4,897,000	5,892,000
Current Assets, Total	143,675,000	110,534,000
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Noncurrent Assets, Total	29,984,000	21,772,000
Assets, Total	173,659,000	132,306,000
Liabilities and Equity [Roll Up]		
Liabilities [Roll Up]		
Current Liabilities [Roll Up]		
Accounts Payable and Accrued Expenses	7,390,000	6,898,000
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Noncurrent Liabilities, Total	93,257,000	54,197,000
Liabilities, Total	101,696,000	61,846,000
Equity [Roll Up]		
Common Stock	69,315,000	68,178,000
Retained Earnings (Accumulated Deficit)	2,648,000	2,282,000
Equity, Total	71,963,000	70,460,000
Liabilities and Equity, Total	173,659,000	132,306,000

Classified Balance Sheet #2 (BSC')

Network	1001 - Statement - Balance Sheet (http://xasb.org/gaap/role/statement/lev	el4/BalanceSheetClassified)
Table	Balance Sheet Classified [Table]	
Reporting Entity [Aspect]	http://regulator.gov/id#12345678	390
Legal Entity [Aspect]	Consolidated Entity [Member]	
Econ childy [Aspect]	consondated entity [member]	
	Period [Aspect]	
Line Items [Aspect]	2020-12-31	2019-12-31
Assets [Roll Up]		
Current Assets [Roll Up]		
Cash and Cash Equivalents	118,986,000	86,365,000
Receivables	19,792,000	18,277,000
Inventories	4,897,000	5,892,000
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Assets, Total	173,659,000	132,306,000
Liabilities and Equity [Roll Up]		
Liabilities [Roll Up]		
Current Liabilities [Roll Up]		
Accounts Payable and Accrued Expenses	7,390,000	6,898,000
Current Portion of Long-term Debt	1,049,000	751,000
Current Liabilities, Total	8,439,000	7,649,000
Long-term Debt	76,073,000	40,557,000
Other Noncurrent Liabilities	17,184,000	13,640,000
Liabilities, Total	101,696,000	61,846,000
Equity [Roll Up]		
Common Stock	69,315,000	68,178,000
Retained Earnings (Accumulated Deficit)	2,648,000	2,282,000
Equity, Total	71,963,000	70,460,000
Liabilities and Equity, Total	173,659,000	132,306,000

Are these two balance sheets logically equivalent?

(BSC)

Network	1001 - Statement - Balance Sheet (http://wasb.org/gaap/role/statement/le	vel4/BalanceSheetClassified)
Table	Balance Sheet Classified [Table]	
Reporting Entity [Aspect]	http://regulator.gov/id#1234567	890
Legal Entity [Aspect]	Consolidated Entity [Member]	050
regarizativy (Aspect)	consolidated Entity [Member]	
		[Aspect]
Line Items [Aspect]	2020-12-31	2019-12-3
Assets [Roll Up]		
Current Assets [Roll Up]		
Cash and Cash Equivalents	118,986,000	86,365,000
Receivables	19,792,000	18,277,000
Inventories	4,897,000	5,892,000
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Liabilities and Equity, Total	173,659,000	132,306,000



etwork	1001 - Statement - Balance Sheet (http://xasb.org/gaap/tole/statement/level4/BalanceSheetUnclassified)	
able	Balance Sheet Unclassified [Table]	
porting Entity [Aspect]	http://regulator.gov/id#12345678	890
gal Entity [Aspect]	Consolidated Entity [Member]	
	Period (Aspect)	
Line Items [Aspect]	2020-12-31	2019-12-31
ssets [Roll Up]		
Cash and Cash Equivalents	118,986,000	86,365,000
Receivables	19,792,000	18,277,000
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Equity, Total	71,963,000	70,460,000
Liabilities and Equity, Total	173,659,000	132,306,000

(BSL)

Network	1001 - Statement - Balance Sheet (http://xasb.org/gaap/role/statement/level4/LiquidationBasisBalanceSheet)	
Table	Balance Sheet Liquidation Basis [Table]	
Reporting Entity [Aspect]	http://regulator.gov/id#12345678	90
Legal Entity [Aspect]	Consolidated Entity [Member]	
	Period [Aspect]	
Line Items [Aspect]	2020-12-31	2019-12-31
Assets [Roll Up]		
Current Assets [Roll Up]		
Cash and Cash Equivalents	118,986,000	86,365,000
Receivables	19,792,000	18,277,000
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Liabilities, Total	101,696,000	61,846,000
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(BSC')

Vetwork	1001 - Statement - Balance Sheet (http://kasb.org/gaap/role/statement/leve/4/BalanceSheetClassified) Balance Sheet Classified [Table]					
Table						
Reporting Entity [Aspect]	http://regulator.gov/id#1234567890					
egal Entity [Aspect]	Consolidated Entity [Member]					
	Period [Aspect]				
Line Items [Aspect]	2020-12-31	2019-12-31				
Assets [Roll Up]						
Current Assets [Roll Up]						
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	173,659,000 132,30					

What if you identified the patterns for EVERY permissible form of balance sheet? Another name for these PATTERNS is MODELS.

99% of reports (5,642) used exactly one of four different balance sheet report styles

SUMMARY OF BALANCE SHEET STYLES

Code	Count of Reports Using this Style	Percent of Reports Using this Style	Percent of Reports Consistent with Style
BSC	4,637	81%	98%
BSU	883	15%	99%
BSN	111	2%	99%
BSR	15	1%	99%
BSL	?	?%	?%
BSB	3	0%	100%
Unknown/Other	88	1%	??%
Total	5,734	100%	

I did exactly that for US GAAP and IFRS balance sheets submitted to the SEC. (i.e. analyzed 100% of financial reports using automated processes, 5,734 reports)

SUMMARY OF CASH FLOW STATEMENT STYLES

Code	Count of Reports Using this Style	Percent of Reports Using this Style	Percent of Reports Consistent with Style
CF1	5,513	96%	99%
CF2	132	2%	99%
Unknown	89	2%	??%
Total	5,734	100%	

SUMMARY OF STATEMENT OF COMPREHENSIVE INCOME STYLES

Code	Count of Reports Using this Style	Percent of Reports Using this Style	Percent of Reports Consistent with Style
SCI1	5,461	95%	99%
SCI2	171	3%	99%
SCI3	13	1%	??%
Unknown/Other	89	1%	??%
Total	5,734	100%	

SUMMARY OF INCOME STATEMENT STYLES

Code	Count of Reports Using this Style	Percent of Reports Using this Style	Percent of Reports Consistent with Style
SPEC6	2,080	36%	95%
SPEC1	966	17%	95%
SPEC2	945	17%	95%
INTBX	471	8%	97%
IS6	131	2%	95%
IS3	154	2%	95%
INSBX	118	2%	95%
IS4	82	1%	95%
SPEC8	43	1%	95%
Other known	457	8%	95%
Unknown/Other	287	5%	??%
Total	5,734	100%	

SUMMARY OF BALANCE SHEET STYLES

Code	Count of Reports Using this Style	Percent of Reports Using this Style	Percent of Reports Consistent with Style
BSC	4,637	81%	98%
BSU	883	15%	99%
BSN	111	2%	99%
BSR	15	1%	99%
BSL	?	?%	?%
BSB	3	0%	100%
Unknown/Other	88	1%	??%
Total	5,734	100%	

What if you did this for every statement?

US GAAP: <u>http://www.xbrlsite.com/2018/10K/US-GAAP-Reporting-Styles.pdf</u>

IFRS: <u>http://www.xbrlsite.com/2018/IFRS/IFRS-Reporting-Styles.pdf</u>

rint Document View Excel Doc			
Cover	Inventory (Details) (USD \$)	Dec. 31, 2013	Dec. 31, 2012
Dcoument and Entity	Inventory [Abstract]		
Information Document	Raw Materials	\$ 4,617,404	\$ 4,634,704
	Work in Process	1,600,041	2,350,304
inancial Statements	Finished Goods	1,180,288	2,670,724
Balance Sheets	Inventory	\$ 7,397,733	\$ 9,655,732
- Definition			

How about if you did it for a disclosure?

DisclosureFound	DisclosureConsistent	RepresentationConcept_TextBlock	RepresentationConcept_Detail	Count	Percent
FALSE	CONSISTENT	NOT-FOUND	NOT-FOUND	3,612	56%
TRUE	CONSISTENT	us-gaap:ScheduleOfInventoryCurrentTableTextBlock	us-gaap:InventoryNet	1,721	27%
TRUE	INCONSISTENT	NOT-FOUND	us-gaap:InventoryNet	1,061	16%
TRUE	INCONSISTENT	us-gaap:ScheduleOfInventoryCurrentTableTextBlock	NOT-FOUND	46	1%
TRUE	CONSISTENT	us-gaap:ScheduleOfUtilityInventoryTextBlock	us-gaap:InventoryNet	19	0%
TRUE	INCONSISTENT	us-gaap:ScheduleOfUtilityInventoryTextBlock	NOT-FOUND	7	0%
				6,466	100%
			Consistent with expectation	5,352	83%
			Inconsistent with expectation	1,114	17%
			Total	6,466	100%

- Line #1 indicates that NEITHER the Level 3 Disclosure Text Block nor the Level 4 Disclosure Details were found, meaning this disclosure is not present and is consistent with expectations should the disclosure not exist in the report. Basically, 56% of public companies do not report inventory.
- Line #2 indicates that BOTH the Level 3 Disclosure Text Block AND the Level 4 Disclosure Detail line items WERE found. This is as expected. A total of 27% of public companies report using these concepts.
- Line #3, Line #4, and Line #7 indicates an inconsistency because either the Level 3 Disclosure Text Block was found OR the Level 4 Disclosure Detail was found but NOT BOTH.
- Line #5 indicates that 19 companies used an ALTERNATIVE Level 3 Disclosure Text Block to report the inventory components roll up, but the same Level 4 Disclosure Detail concept.
- Line #7 indicates the total population of public company financial reports analyzed, which is 6,466 10-K filings as of March 31, 2016.

You identified the patterns for the disclosure.

And then you repeated this for every disclosure?

(I only did this for 65 very common US GAAP disclosures)

http://xbrlsite.azurewebsites.net/2016/Analysis/SummaryTable.pdf

_	March 31, 2019 (10-K for FY 2018				-		
	DisclosureName	Found and Consistent	Found and Inconsistent	Not Found	Total Filings	56 Consistent	% Inconsistent
	disclosures:EntityInformation	5,542	13	0	5,555	100%	O%
	disclosures:DocumentInformation	5,541	13	0	5,555	100%	0%
	disclosures:RestructuringReserveRollForward	90	65	5,400	5,555	99%	1%
	disclosures:LiabilitiesAndEquityRollUp	5,466	69	20	5,555	99%	1%
	disclosures:LongTermDebtInstrumentsRollUp	127	73	5,355	5,555	99%	19
_	disclosures:InterestAndOtherIncomeRoIIUp	7	74	5,474	5,555	99%	1%
	disclosures:CapitalLeasesFutureMinimumPaymentsReceivableRollUp	14	78	5,463	5,555	99%	1%
	disclosures:SignificantAccountingPolicies	5,477	78	0	5,555	99%	19
	disclosures:ProductWarrantyLiability	466	83	5,006	5,555	99%	19
	disclosures:AssetsRollUp	5,428	119	8	5,555	98%	2%
11	disclosures:RestructuringAndRelatedCostHierarchy	116	127	5,312	5,555	98%	29
12	disclosures:AcquiredFiniteLivedIntangibleAssetByMajorClass	521	160	4,874	5,555	97%	39
13	disclosures:FutureMinimumRentalPaymentsForOperatingLeases	495	176	4,884	5,555	97%	39
14	disclosures:BalanceSheet	5,374	181	0	5,555	97%	39
15	disclosures:Goodwill	181	189	5,185	5,555	97%	3%
16	disclosures:UnrecognizedTaxBenefitsExcludingAmountsPertainingToExaminedTaxReturnsRollForward	2,159	203	3,193	5,555	96%	49
17	disclosures:BasisOfReporting	5,334	221	0	5,555	96%	4%
18	disclosures:FiniteLivedIntangibleAssetsFutureAmortizationExpenseRollUp	1,188	226	4,141	5,555	96%	49
19	disclosures:OtherNonoperatingIncomeExpense	2,018	229	3,308	5,555	96%	49
20	disclosures:IncomeStatement	5,208	239	108	5,555	96%	49
21	disclosures:RestructuringChargesRollUp	405	257	4,893	5,555	95%	5%
22	disclosures:StatementOfComprehensiveIncome	2,724	258	2,573	5,555	95%	5%
23	disclosures:OtherAssetsNoncurrent	281	260	5,014	5,555	95%	5%
	disclosures:ExpectedBenefitPayments	1,085	270	4,200	5,555	95%	5%
25	disclosures:AssetRetirementObligationRollForwardAnalysisRollForward	224	291	5,040	5,555	95%	5%
26	disclosures:LongTermDebtMaturities2	558	294	4,703	5,555	95%	5%
27	disclosures:OtherLiabilitiesNoncurrentHierarchy	218	305	5,032	5,555	95%	5%
	disclosures:StatementOfChangesInEquity	5,246	309	0	5,555	94%	6%
-	disclosures:RestructuringReserveByTypeOfCost	324	337	4,894	5,555	94%	6%
	disclosures:NetBenefitCosts	981	385	4,189	5,555	93%	7%
_	disclosures:AccountsPayableAndAccruedLiabilitiesRollUp	331	391	4,833	5,555	93%	7%
_	disclosures: FiniteLivedIntangibleAssetsFutureAmortizationExpenseCurrentAndFiveSucceedingFiscalYearsHierarchy	985	429	4,141	5,555	92%	8%
	${\tt disclosures:} Share {\tt basedCompensationRestrictedStockUnitsAwardActivityWeightedAveragePrice} \\$	3,963	458	1,134	5,555	92%	8%
	$\label{eq:sclosures} SairValue \end{sclosures} A set the the scheme scheme set of the the scheme s$	827	459	4,269	5,555	92%	8%
_	disclosures:GeographicAreasLongLivedAssetsInIndividualForeignCountriesByCountryDisclosure	1,003	507	4,045	5,555	91%	9%
-	disclosures:IncomebeforeIncomeTaxDomesticAndForeign	1,448	526	3,581	5,555	91%	9%
-	disclosures:AssumptionsUsed	950	530	4,075	5,555	90%	10%
	disclosures:CapitalLeasesFutureMinimumPaymentsPresentValueOfNetMinimumPaymentsRoIIUp disclosures:OperatingLeasesFutureMinimumPaymentsDueRoIIUp	423	551 574	4,581	5,555	90%	10%
	disclosures:AccruedLiabilities	2,994	578	3,989	5,555	90%	10%
	disclosures:StockholdersEquityNoteWarrantsOrRights	336	626	4,593	5,555	89%	10%
-	disclosures:AccountsNotesLoansAndFinancingReceivable	1,019	680	4,595	5,555	88%	11%
	disclosures:AllowanceForCreditLossesonFinancingReceivables	332	692	4,531	5,555	88%	12%
	disclosures: Andwance For Leoit Losses on Financing Receivables disclosures: Sharebased Payment Award Stock Options Valuation Assumptions	2,554	814	2,187	5,555	85%	12%
-	disclosures:DefinedBenefitPlanBenefitObligationRollForward	478	852	4,225	5,555	85%	15%
_	disclosures:DefinedBenefitPlanFairValueOfPlanAssetsRollForward	436	898	4,221	5,555	84%	16%
	disclosures:RevenuefromExternalCustomersAttributedToForeignCountriesByGeographicArea	430	957	3,835	5,555	83%	10%
	disclosures:SharebasedCompensationArrangementsBySharebasedPaymentAward	2,551	958	2,046	5,555	83%	17%
	disclosures:DeferredTaxAssetsAndLiabilities	4,004	991	560	5,555	82%	18%
	disclosures:LongTermDebtMaturities	1,329	1,000	3,226	5,555	82%	18%
	disclosures:IndefinitelivedIntangibleAssets	47	1,000	4,507	5,555	82%	18%
_	disclosures:FiniteLivedIntangibleAssetsNetRollUp	1,477	1,010	3,068	5,555	82%	18%
-	disclosures:NatureOfOperations	4,493	1,062	0,000	5,555	81%	19%
	disclosures:PropertyPlantAndEquipmentNetByTypeRollUp	3,694	1,066	795	5,555	81%	199
	disclosures:InventoryNetRollUp	1,469	1,092	2,994	5,555	80%	209
	disclosures:GoodwillRollForward	1,523	1,126	2,906	5,555	80%	20%
57	disclosures:LongTermDebtInstruments	2,482	1,148	1,925	5,555	79%	219
58	disclosures:AllocationOfPlanAssets	7	1,328	4,220	5,555	76%	249
59	disclosures:PropertyPlantAndEquipmentUsefulLives	3,559	1,376	620	5,555	75%	259
60	disclosures:EffectiveIncomeTaxRateContinuingOperationsTaxRateReconciliationRollUp	3,593	1,614	348	5,555	71%	299
	disclosures:IncomeTaxExpenseBenefitDetails	3,316	1,719	520	5,555	69%	319
62	disclosures:CashFlowStatement	3,708	1,847	0	5,555	67%	339
63	disclosures:FiniteLivedIntangibleAssetsEstimatedUsefulLives	1,344	1,927	2,284	5,555	65%	359
	disclosures:AccumulatedOtherComprehensiveIncomeLoss	1,314	2,306	1,935	5,555	58%	429
	disclosures:RevenueRecognitionPolicy	3,183	2,372	0	5,555	57%	439

What if you put that information into machinereadable form and then generated human-readable information from the machinereadable information?

Ľ	Rules: disclosures:InventoryNetRolIUp	-
	Disclosure mechanics validation for disclosure: disclosures:InventoryNetRollUp	
	Roll up of details of components of current inventory, net.	
	This disclosure:	
	 MUST be represented by the networks with the SEC Category: DISCLOSURE 	
	MUST be represented as an SEC Level 4 Disclosure Detail with the concept arrangement pattern: ROLL UP	
	 ROLL UP REQUIRES the total concept us-gaap: InventoryNet 	
	or alternative concept: us-gaap:InventoryNetOfAllowancesCustomerAdvancesAndProgressBillings	
	 or alternative concept: us-gaap:PublicUtilitiesInventory 	
	 or alternative concept: us-gaap:AirlineRelatedInventory 	
	 or alternative concept: us-gaap:RetailRelatedInventory 	
	 or alternative concept: us-gaap:EnergyRelatedInventory 	
	 or alternative concept: us-gaap:AgriculturalRelatedInventory 	
	MUST be represented using the SEC Level 3/2 Disclosure Text Block: us-	
	<pre>gaap:ScheduleOfInventoryCurrentTableTextBlock or alternative concept: us-gaap:ScheduleOfUtilityInventoryTextBlock</pre>	
	Requires the note to be reported using the SEC Level 1 Note Text Block: us-gaap:InventoryDisclosureTextBlock	
	Requires the policy to be reported using the SEC Level 2 Policy Text Block: us-gaap: InventoryPolicyTextBlock	
	 or alternative concept: us-gaap:InventoryMajorClassesPolicy 	
	 or alternative concept: us-gaap:InventorySuppliesPolicy 	
	 or alternative concept: us-gaap:InventoryWorkInProcessPolicy 	
	 or alternative concept: us-gaap:InventoryFinishedGoodsPolicy 	
-		
	Ok	

What if you then organized all of this information into a software interface which you could use to interact with the information during the process of creating a financial report?

Human-readable: http://xbrlsite.azurewebsites.net/2017/Prototypes/Microsoft2017/Disclosure%20Mechanics%20and%20Reporting%20Checklist.html

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Unitary Unitary Isoand Isoan	autea	s Found: 48 of 70 (69%)						_	Disclosur	es Consistent: 55	ot 70 (97%)	Disclosures Inco	naistent: 2 of 70 (3%)
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Index	Dec	current and Entity information iscanchul	DOCUMENT	Level/Detail	HIERARCHY	Fains	Tota	CONS	STENT		Registrant		Not necessary, satisfied by Document Information (Hierarchy) dis
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Note Lawei Note Lawei Note Lawei TEXT BLOCK Note Lawei Note Lawei Accounting Biologi EXPECTED diskourse 17 Resease Recognition Policy (Policy Text Block) DisCLOSURE LaweiTextBlock LCVL 2 Take Take Resease Biologi NOT: Resease Biologi Resease Biologi NOT: Resease Biologi Resease Biologi NOT: Resease Biologi Resease Biologi NOT: Resease Biologi Resease Biologi Resease Biologi NOT: Resease Biologi Resease Biol Biologi	Bas	uis of Reporting Note Note Level	DISCLOSURE	Levell TextBlock		True	Tota	CONS	STENT	Accounting, Policy (Policy	NOT- EXPECTED		Disclosure always required
Text Black1 Text Black1 Text Black2 Text Black3 EXPECTED discourse 18 Investory, Net [Current] Red Up] DISCLOSURE LevelTextBlack3 Text Black3 Expected Red Expected Red Required because los item un-gaap/meetro/Net within the state, t			DISCLOSURE	Level TextBlock		Tua	Toa	CONS	STENT	Accounting Policies (Text			Disclosure always required
1 //Level/Detail //Level/Detail Image: Image	Rev Text	ivenue Recognition Policy (Policy at Block)	DISCLOSURE	Level2TextBlock		Tua	True	CONS	STENT	Policy Policy	NOT- EXPECTED	Required disclosure	Discionare always required
by Type [RellUg] //Level/Getal and Engineers exists, then was reported Chain Type [RellUg] Mark exists, then was reported Chain Type [RellUg]	Inve	rentory, Net (Current) [Roll Up]	DISCLOSURE		ROLL UP	Tue	True	CONS	STENT	Inventory, Current ITable	Inventory, Net	exists, then disclosure	Required because line item us-gasp:inventoryNet was reported
Block required			DISCLOSURE		ROLL UP	Tue	True	CONS	STENT	and Equipment	and Equipment	exists, then	Required because line item us-gaap:PropertyPlantAndEquipmen was reported

What are the patterns?

- Every financial report has identifiable "fragments"; the report is not one big thing it is a lot of little things.
- Each fragment has patterns:
 - It is either a "set", a "roll up", a "roll forward", a "text block", etc...
 - It is used to represent some portion of a disclosure.
 - Information represented *within* a fragment has to be consistent with other information in that fragment.
 - Information represented *some other* fragment must not contradict or be otherwise be inconsistent with information in another fragment.
- The patterns forms a logical system described using models that describe the system, structures that describe the models, and statements that describe the structures.

Logical Systems: <u>http://xbrl.squarespace.com/journal/2019/9/25/understanding-and-expressing-logical-systems.html</u>

Statements.

- **Statement**: A statement is a proposition, claim, assertion, belief, or fact about or related to the universe of discourse.
 - **Assertion**: An assertion is a type of statement which specifies a permissible manipulation within a structure within a model for a theory.
 - Axiom: An axiom is a statement which describes a self-evident logical principle related to a universe of discourse that no one would argue with or otherwise dispute.
 - **Theorem**: A theorem is a statement which makes a logical deduction which can be proven by constructing a chain of reasoning by applying axioms or other theorems in the form of IF...THEN statements.
 - **Restriction**: A restriction is a statement that is a special type of axiom or theorem imposed by some authority which restricts, constrains, limits, or imposes some range.
 - **Term**: A term is a statement that specifies the existence of a primitive (a.k.a. simple, atomic) or functional (a.k.a. complex, composite) idea that is used within a universe of discourse. Terms are generally nouns.
 - **Relation**: A relation (a.k.a. predicate) is a statement that specifies a permissible structure or specifies a property of a term. A relation is generally a verb.
 - Is-a: An is-a relation specifies a general-special or wider-narrower or class-subclass or type-of type relation between terms. (class)
 - Has-a: A has-a relation specifies a has-part or part-of type relation between terms. (meronymy)
 - **Property-of**: A property-of relation specifies that a term has a specific quality, trait, or attribute. (property)
 - Fact: A fact (a.k.a. instance, individual) is a statement that specifies a piece of information about circumstances that exist or events that have occurred that is reported by an entity "as of" or "for a period" of time and otherwise distinguishable from one another by one or more aspects.

Logical Systems: <u>http://xbrl.squarespace.com/journal/2019/9/25/understanding-and-expressing-logical-systems.html</u>

Another Name for Assertion is "Rule".

- The term **assertion** is a synonym for **rule**.
- The Merriam-Webster dictionary defines anarchy as "a situation of confusion and wild behavior in which the people in a country, group, organization, community, etc., are not controlled by rules or laws." Rules prevent information anarchy.
- Rules enable a knowledge bearer to describe information they are providing and verify that the information provided is consistent with that description. Rules enable a knowledge receiver to understand the description of information provided by the knowledge bearer and likewise verify that the information is consistent with that description.
- Rules guide, control, suggest, or influence behavior. Rules cause things to happen, prevent things from happening, or suggest that it might be a good idea if something did or did not happen. Rules help shape judgment, help make decisions, help evaluate, help shape behavior, and help reach conclusions.
- Rules arise from the best practices of knowledgeable business professionals. A rule describes, defines, guides, controls, suggests, influences or otherwise constrains some aspect of knowledge or structure within some problem domain.
- Don't make the mistake of thinking that rules are completely inflexible and that you cannot break rules. Sure, maybe there are some rules that can never be broken. Maybe there are some rules that you can break. It helps to think of breaking rules as penalties in a football game. The point is that the guidance, control, suggestions, and influence offered by rules are a choice of business professionals.
- The meaning of a rule is separate from the level of enforcement someone might apply to the rule.
- A rule states a fact about the world (declarative rule). A rule can provide instructions (production rule).

What, Specifically, Can Go Wrong?

Example of Potential Problem	How to Mitigate Problem
Incorrectly represent relations in a set (structure) of XBRL presentation relations . For example, a [Member] was inadvertently used within a set of [Line Items] which is illogical.	Specify what relations are allowed using XBRL definition relations, automate the process of checking XBRL presentation structures. 100% automatable if rules are provided.
Use one class of concept to represent information that relates to some other class. For example, if the concept "Cost of Revenues" (which is a DIRECT operating expense) is used within a roll up of "Operating Expense" (which is an INDIRECT operating expense).	Provide "class-subclass" relations within an XBRL taxonomy to specifically and fully specify the classes and their allowed subclasses. Then, use automated machine-based processes to make sure the relations expressed in a company extension are within the set of permissible relations.
A concept is incorrectly used to represent a fact. For example, the concept "gaap:NoncurrentAssets" is used to represent information which should have used "gaap:LongLivedAssets".	Provide fundamental accounting concept consistency cross check rules to automate the process of checking key, high-level relations between classes of concepts to identify contradictions and inconsistencies.
Mathematical relations are incorrect . For example, the facts provided on the balance sheet roll up or within a disclosure roll forward do not foot.	Provide machine-readable descriptions of 100% of the mathematical relations that exist within a report and use automated processes to check report information to make sure reported information is consistent with expectation.
A required disclosure is not provided in a report. For example, the nature of operations disclosure or the basis of reporting disclosure are not provided. Or, if the line items "Inventories" is provided on the balance sheet but there is no components of inventories disclosure or inventories policy provided and the inventories amount is material relative to other reported information.	Provide machine-readable descriptions to the extent possible that indicates what disclosures are always required, what disclosures are required when a specific line item is reported, what disclosures are required if some other disclosure is reported, etc.

Examples of Errors.

Much can be learned by examining errors made in XBRLbased financial reports. Here is one example: **1847** *Holdings LLC*

http://www.sec.gov/Archives/edgar/data/1599407/000147 793218005687/0001477932-18-005687index.htm

This economic entity used *parent equity concept* to represent *total equity* and *total equity concept* to represent *parent equity*. Also, inappropriately labeled the two different line items with the same label which is incorrect.

High-quality documentation for 26 errors:

http://xbrlsite.azurewebsites.net/2019/Library/FundamentalAccountingConceptRelationsErrorExamples.pdf

High-quality documentation for hundreds of errors:

http://xbrl.squarespace.com/journal/2019/3/29/examples-of-errors-in-xbrl-based-digital-financial-reports.html

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utableToNoncontrollingi	nterest
78	3,262,988
880	8,569,649
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3.115	3,115
11,891	11,891
(2,179,617)	(1,159,724)
(2,163,611)	(1,143,718)
34,076	658,524
(2,129,535)	(485,194)
6,355,345	8,084,455
	1,000 3,115 11,891 (2,179,617) (2,163,611) 34,076 (2,129,535)

Leveraging the Four Statement Model.

Four Statement Model

Understanding how to four financial statements (balance sheet, cash flow statement, changes in equity, and income statement are tied together mathematically and logically.

			Period [Axis]	
Balance Sheet [Abstract]		2020-12-31	2019-12-31	
Balance Sheet [Abstract]				
Assets [Roll Up]				
Current Assets		3,500	0	
Noncurrent Assets		0	0	
	Assets	3,500	0	
Liabilities and Equity [Roll Up]				
Liabilities [Roll Up]				
Current Liabilities		0	0	
Noncurrent Liabilities		0	0	
	Liabilities	0	0	
Equity [Roll Up]				
Equity Attributable to Controlling Interest		3,500	0	
Equity Attributable to Noncontrolling Interest		0	0	
	Equity	3,500	0	
	Liabilities and Equity	3,500	0	

		Period [Axis]
Cook Flow Chattan and [Alastan at]		2020-01-01 - 2020-12-31
Cash Flow Statement [Abstract]		2020-12-31
Cash Flow Statement [Abstract]		
Net Cash Flow [Roll Up]		
Net Cash Flow from Operating Activities		3,500
Net Cash Flow from Investing Activities		0
Net Cash Flow from Financing Activities		0
	Net Cash Flow	3,500
Assets [Roll Forward]		
Assets, Beginning		0
	Net Cash Flow	3,500
	 Assets, Ending 	3,500
	 Assets, Ending 	3,500
	Assets, Ending	
	Assets, Ending	Period [Axis]
Changes in Equity [Abstract]	Assets, Ending	
	Assets, Ending	Period [Axis] 2020-01-01 -
Changes in Equity [Abstract]	Assets, Ending	Period [Axis] 2020-01-01 -
Changes in Equity [Abstract] Equity [Roll Forward]	Assets, Ending	Period [Axis] 2020-01-01 - 2020-12-31
Changes in Equity [Abstract] Equity [Roll Forward] Equity, Beginning	Assets, Ending	Period [Axis] 2020-01-01 - 2020-12-31 0
Changes in Equity [Abstract] Changes in Equity [Abstract] Equity [Roll Forward] Equity, Beginning Net Income Investments by Owners	Assets, Ending	Period [Axis] 2020-01-01 - 2020-12-31 0
Changes in Equity [Abstract] Equity [Roll Forward] Equity, Beginning Net Income	Assets, Ending	Period [Axis] 2020-01-01 - 2020-12-31 0 3,000
Changes in Equity [Abstract] Equity [Roll Forward] Equity, Beginning Net Income Investments by Owners	Assets, Ending	Period [Axis] 2020-01-01 - 2020-12-31 0 3,000 1,000

By definition, all financial reports fit into the four statement model

	Period [Axis]
Income Statement [Abstract]	2020-01-01 - 2020-12-31
Income Statement [Abstract]	
Net Income [Roll Up]	
Income from Ordinary Activities of Entity [Roll Up]	
Revenues	7,000
(Expenses)	(3,000)
Income from Ordinary Activities of Entity	4,000
Income from Peripheral or Incidental Transactions of Entity [Roll Up]	
Gains	1,000
(Losses)	(2,000)
Income from Peripheral or Incidental Transactions of Entity	(1,000)
Net Income	3,000