

Learning Objectives

- Describe concepts and standards underlying the measurements used in accounting to develop the financial statements of businesses.
- Analyze and account for business transactions.
- Classify and communicate the results of business transactions in the form of financial statements.
- Use and interpret financial information for making decisions pertaining to the business.



Introduction to Financial Accounting

Measuring & reporting financial information

Forms of Businesses:

- · Proprietorship & Partnership
 - Unlimited liability
 - No taxation
- Corporation (Shareholders → Board of Directors → Top Managers)
 - Limited liability
 - Taxation

Corporations can be publicly traded or privately held.



3

Assumptions

Separate entity

We treat the business and the owners as separate entities, focusing on the accounting for the businesses, not the owners.

Unit of measurement

The currency in which the company is operating.

Going concern

We presume that the company will continue to operate -- that it'll be ongoing



Assumptions (Cont'd)

Periodicity

We presume that we can arbitrarily pick any time period that we want to and report the financial results for that time period

Materiality

The only information that needs to be disclosed in financial statements is information that will be useful for those who rely on the financial statements to make decisions.

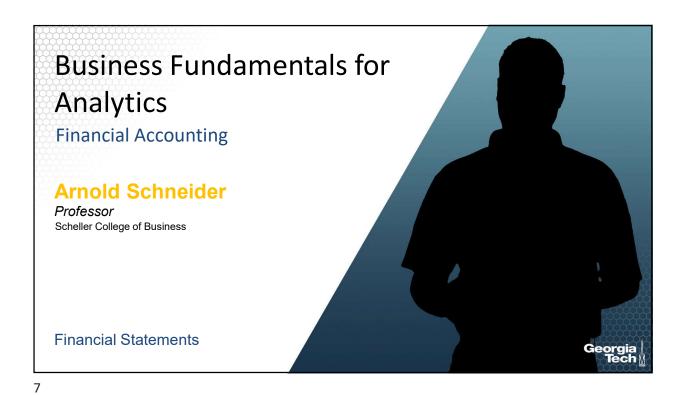
[Home Depot, p.36]

"The valuation reserve related to accounts receivable was not material to our consolidated financial statements at the end of fiscal 2018 or fiscal 2017." [Home Depot, p.36]

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5





Financial Statements

Generally Accepted Accounting Principles (GAAP)

- Securities & Exchange Commission (SEC).
 The rule-making resides under the authority of the SEC.
- Financial Accounting Standards Board (FASB)
 FASB consists of representatives from public accounting firms, industry, government agencies, and academia.

International Financial Reporting Standards (IFRS)

GAAP vs. Tax Accounting

We focus only on GAAP, not on tax accounting.



Qualities of Financial Statements

- Understandability
- Timeliness
- Full disclosure
- Comparability
- Objectivity [UPS, p. 69] -
- · Decision relevance

"The preparation of our consolidated financial statements requires the use of estimates and assumptions that affect the reported amounts of assets and liabilities, the reported amounts of revenues and expenses, and the disclosure of contingencies. Estimates have been prepared on the basis of the most current and best information and actual results could differ materially from those estimates." [UPS, p. 69]

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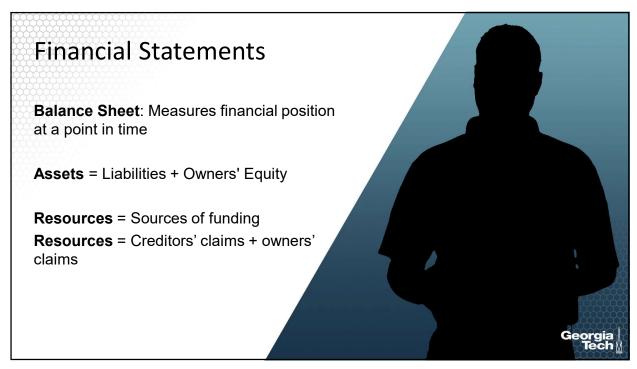
Required Financial Statements

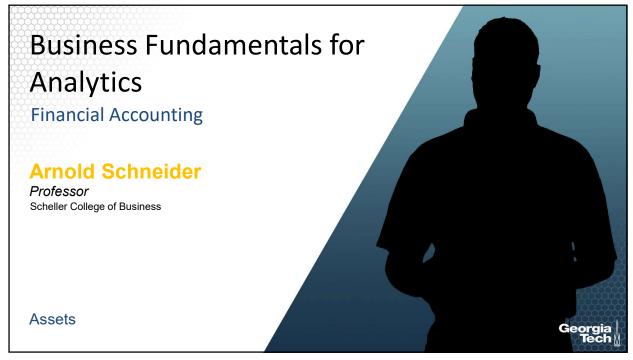
- Balance Sheet
 - Measures financial position at a point in time.
 - Assets, Liabilities, and Owner's Equity
- Income Statement
- · Statement of Cash Flows

Accounting Equation.

- The left side of the equation represents
 resources of the company, that is the assets
 are the resources.
- The right side represents sources of the funding provided by the creditors. The Liabilities represent the creditor's claims.
- Owner's Equity represents the sources provided by the owners and the owner's claims.









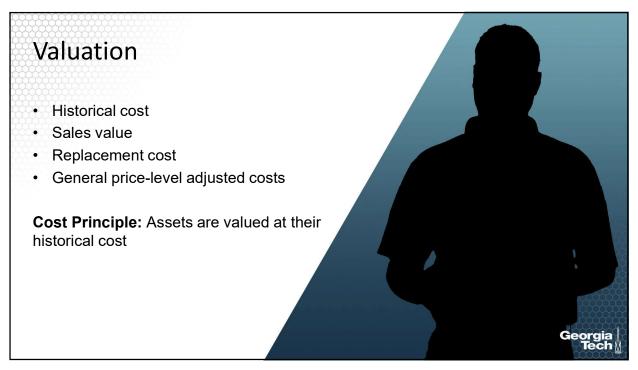
Common Asset Accounts

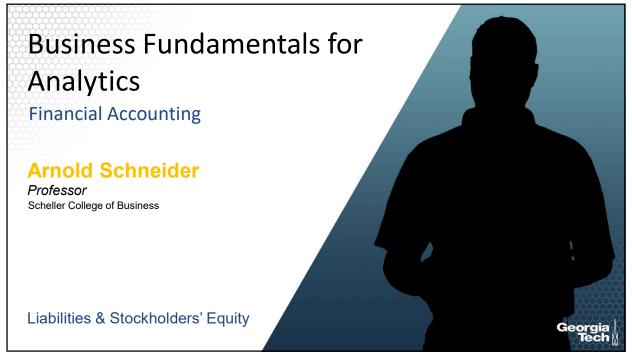
- Cash
- · Accounts receivable & notes receivable
- Inventory
- Investments
- Buildings & Equipment
- · Copyrights; patents

Order of presentation: Liquidity









Liabilities & Stockholders' Equity

Liabilities: Obligations owed to creditors

- Money
- · Goods/services

Common Liability Accounts

- · Accounts payable
- · Notes payable
- · Interest payable
- Accrued salaries [Home Depot, p. 31]
- Deferred (Unearned) Revenues [Home Depot, p. 31]

Home Depot, Inc. Liabilities and Stockholders Equity	
Current liabilities:	
Short-term debt	\$
	1,339
_Accounts payable	7,755
Accrued salaries and related expenses	1,506
Sales taxes payable	656
Deferred revenue	1,782
Income taxes payable	11
Current installments of long-term debt	1,056
Other accrued expenses	2,611
Total current liabilities	16, 716
Long-term debt, excluding current installments	26, 807
Deferred income taxes	491
Other long-term liabilities	1,867
Total liabilities	45,881

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17

Classified Balance Sheets

- Current vs. Long-term Assets -- Conversion to cash within 1 year
- Current vs. Long-term Liabilities -- Due date within 1 yr.

[UPS, p. 66]

	UPS, INC. Consolidated Balance Sheets						
		Assets		Decem	nber		
			\$	2018	\$		
					2017		
	Current Assets						
1	Cash and cash	equivalents		4, 225	3,320		
	Marketable secu	urities		810	749		
١	Account receiva	ble, net		8,958	8,773		
1	Current income	taxes receivable		940	1,573		
ı	Other current as	ssets		1,277	1,303		
١	Total Current		16,210	15,718			
	Property, Plant, ar	nd Equipment, Net		26, 676	22,118		
	Goodwill			3,811	3,872		
	Intangible Assets,	Net		2,075	1,964		
	Investments and F	Restricted Assets		170	483		
	Deferred Income 7	Tax Assets		141	266		
	Other Non-Current	t Assets		1,033	1,153		
	Total Assets			50,016	45,574		
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Classified Balance Sheets (Cont'd)

 Current vs. Long-term Assets -- Conversion to cash within 1 year

[UPS, p. 66]

UPS, INC. Liabilities and Shareowners' Equity		
Current Liabilities		
Current maturities of long-term debt and commercial	\$ 2,805	\$
paper		4,011
Accounts payable	5,188	3,934
Accrued wages and withholdings	3,047	2,608
Self-insurance reserves	810	705
Accrued group welfare and retirement plan contributions	715	677
Other current liabilities	1,522	951
Total current liabilities	14087	12,886
Long-term debt	19,931	20,278
Pension and Post-retirement Benefit Obligations	8,347	7,061
Deferred Income Tax Liabilities	1,619	756
Shareowners' Equity	1,571	1,765
Class A common stock	1,424	1,804
Class B common stock	2	2
Additional paid-in capital	7	7
Retained earnings	8,006	5,852
Accumulated other comprehensive loss	(4,994)	(4,867)
Deferred compensation obligations	32	37
Less: Treasury stock	(32)	(37)
Total Equity for Controlling Interests	3,021	994
Non-controlling Interests	16	30
Total Shareowners' Equity	3,037	1,024
Total Liabilities and Shareowners' Equity	50,016	45,574

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19

Liabilities & Stockholders' Equity

Owners' Equity

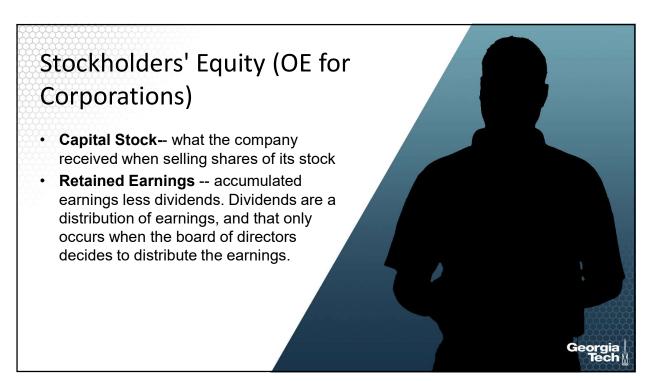
Residual interest of owners to assets

A = L + OE (claims against assets)

A - L = OE



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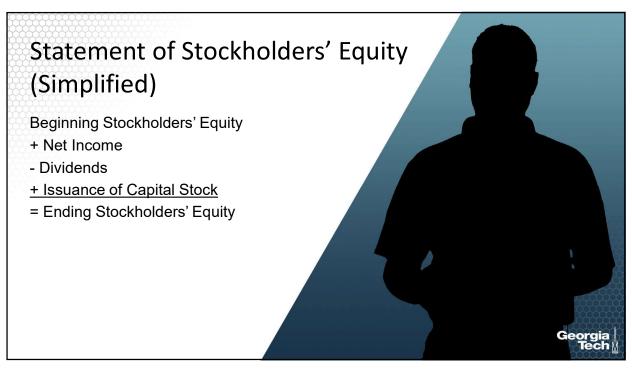
Statement of Retained Earnings

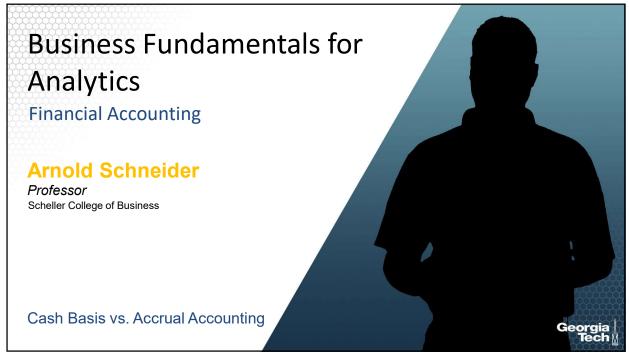
Beginning Retained Earnings

- + Net Income
- Dividends
- = Ending Retained Earnings



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Cash Basis vs. Accrual Accounting

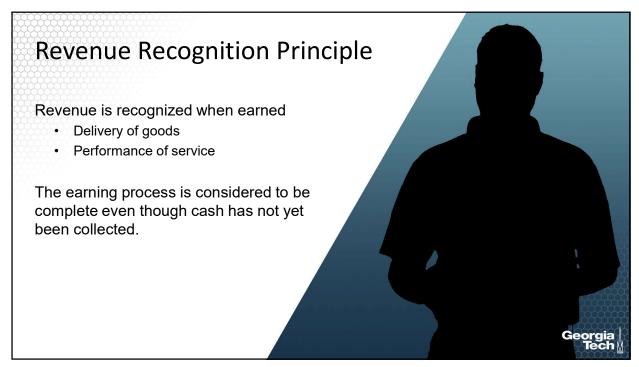
Revenues: Value received for goods sold or services performed

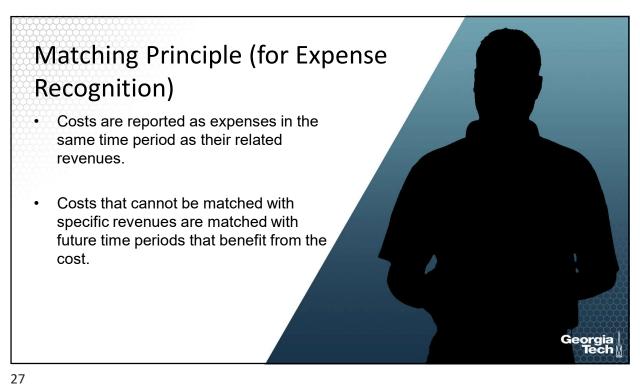
Expenses: Payment, or obligations, for goods or services received

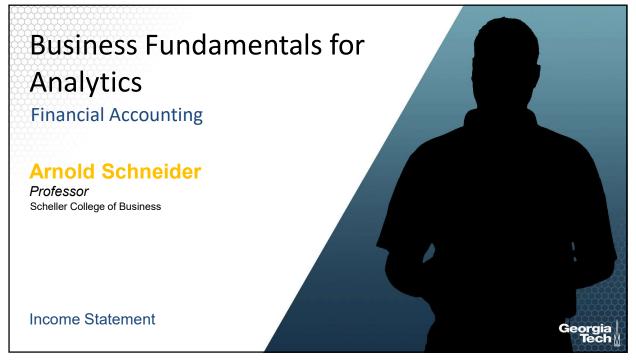
- Cash is not necessarily involved in the determination of revenues or expenses.
- With cash basis accounting, revenues will be recognized when cash is received, and expenses will be recognized when cash is paid out.
- Income statement uses accrual accounting, not cash basis.



25







Income Statement

- Shows the results of a company's operations (i.e., success) over a period of time.
- Focuses on a time interval. It looks at what happened over a period of time. At a minimum, this period of time is a one year period.
- Fiscal year is any 12 month period that the company chooses.

[Home Depot, p. 36]

"Our fiscal year is a 52 or a 53 week period ending on the Sunday nearest to January 31st. Fiscal 2018 includes 53 weeks compared to fiscal 2017 and fiscal 2016, both of which include 52 weeks." [Home Depot, p. 36]

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29

Single Step Income Statement

Revenues Earned

- Expenses Incurred
- = Net Income
- Lists all our revenues and all expenses
- Companies may have additional categories in it (e.g. net sales)



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Gross Margin

Net Sales
- Cost of Goods Sold
Gross Margin

[Home Depot, p. 32]

The Home Depot, Inc Consolidated Statements of Earnings						
Net sales	\$ 108, 203	\$ 100,				
		904				
Cost of sales	71,043	66,548				
Gross profit	37,160	34,358				
Operating expenses:						
Selling, general and administrative	19,513	17,844				
Depreciation and amortization	1,870	1,811				
Impairment loss	247	-				
Total operating expenses	21630	19,675				
Operating income	15,530	14,681				
Interest and other (income) expense:						
Interest and investment income	(93)	(74)				
Interest expense	1,051	1,057				
Other	16	-				
Interest and other, net	974	983				
Earnings before provision for income taxes	14,556	13,698				
Provision for income taxes	3,435	5,068				
Net earnings	\$ 11,121	\$ 8,630				
Basic weighted average common shares	1,137	1,178				
Basic earnings per share	\$ 9.78	\$ 7.33				
Diluted weighted average common shares	1,143	1,184				
Diluted earnings per share	\$ 9.73	7.29				

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31

Operating Expenses

Net Sales <u>Cost of Goods Sold</u> Gross Margin

- Operating Expenses (S, G & A)

Operating Income

[Home Depot, p. 32]

N1 / 1	A 100 CTT	
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Other Revenues & Expenses

Net Sales

Cost of Goods Sold

Gross Margin

Operating Expenses (S, G &

<u>A)</u>

Operating Income

+/- Other Rev. & Exp. (Gains, Losses, Interest, Div. Rev.)

Income Before Taxes

[Home Depot, p. 32]

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33

Income Tax Expense

Net Sales

Cost of Goods Sold

Gross Margin

Operating Expenses (S, G & A)

Operating Income

Other Rev. & Exp. (Gains,

Losses, Interest, Div. Rev.)

Income Before Taxes

- Income Tax Expense

Income After Taxes

[Home Depot, p. 32]

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Basic earnings per share	\$	9.78	;	T .	7.33	
Diluted weighted average common shares		1,143			184	
Diluted earnings per share	\$	9.73		7	7.29	

Non-Recurring Items

Net Sales

Cost of Goods Sold

Gross Margin

Operating Expenses (S, G & A)

Operating Income

Other Rev. & Exp. (Gains, Losses, Interest, Div.

Rev.)

Income Before Taxes

Income Tax Expense

Income After Taxes

Net Income

+/- Discontinued Operations [NCR, p. 51] -

+/- Changes in Accounting Principles

"loss from discontinued operations,

net of tax" [NCR, p. 51]

35

Earnings Per Share (EPS)

Net Income (Net Loss)

Shares of Stock

Basic vs. fully diluted EPS

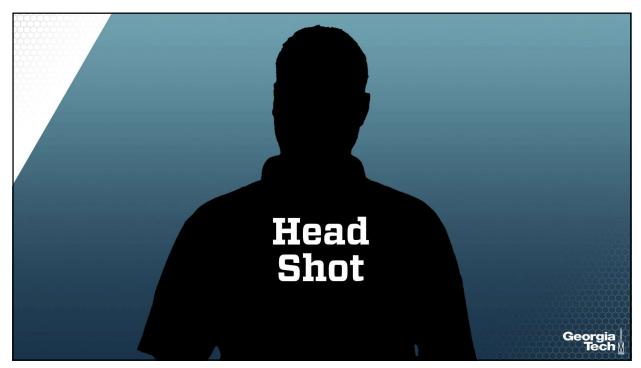
[NCR, p. 51]



Net income (loss) per common share							
Basic	\$ (1.16)	\$ 1.01	\$ 1.76				
Diluted	\$ (1.16)	\$ 0.97	\$ 1.71				



CR, p. 60]	NCR Corporation Notes to Consolidated Financial State	ements			i
		2018	2017	2016	1
	Income (loss) from continuing operations	\$ (36)	\$ 237	283	i
	Series A convertible preferred stock dividends	(49)	(47)	-	Ì
	Deemed dividend on modification of Series A Convertible Preferred Stock	-	(4)	-	Ì
	Deemed dividend on Series A Convertible Preferred Stock redemption	-	(58)	-	Ì
	Net Income (loss) from continuing operations attributable to NCR common stockholders	(85)	(128	283	İ
	Loss from discontinued operations, net of tax	(52)	(5)	(13)	Ī
	Series A convertible preferred stock dividends	-	-	(49)	Ī
	Net Income (loss) attributable to NCR common stockholders	\$ (137)	\$ 123	\$ 221	Ì
	Basic weighted average number of shares outstanding	118.4	121.9	125.6	Ī
	Dilutive effect of as-if Series A Convertible Preferred Stock	-	-	28.2	Ī
	Dilutive effect of employee stock options and restricted stock units	-	5.1	3.6	Ī
	Denominator- from continuing operations	118.4	127.0	157.4	Ī
	Basic weighted average number of shares outstanding	118.4	121.9	125.6	Ī
	Dilutive effect of employee stock options and restricted stock units	-	5.1	3.6	
	Denominator- total	118.4	127.0	129.2	
	Diluted earnings (loss) per share:				Ī
	From continuing operations	\$	\$	\$	Ī
		(0.72)	1.01	1.80	i
	From discontinued operations	(0.44)	(0.04)	(0.10)	Coore
	Total diluted earnings (loss) per share	(1.16)	\$ (0.97)	\$ 1.71	Georg Te





Statement of Cash Flows

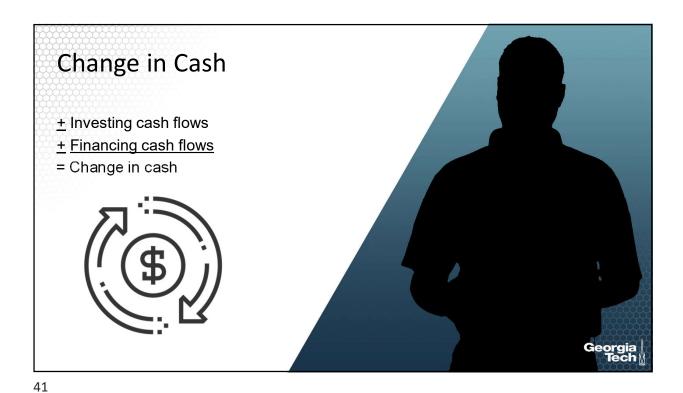
- How did the company receive cash?
- How did the company use its cash?

Shows how cash changed from the beginning to the end of the period

Reports the amount of cash collected and paid out by a company in *operating*, *investing*, and *financing* activities.







Operating Activities

A company's day-to-day activities.

- Major operating cash inflow—cash receipts from selling goods or from providing services.
- Major operating cash outflow—payments to purchase inventory and to pay operating expenses.

Direct vs. Indirect Methods

- Direct method explicitly states where the cash came from and where the cash went to.
- **Indirect method** starts off with the company's net income from the income statement, and it makes some adjustments to get to the cash flow from the operating activities.

[Home Depot, p. 35]



Operating Activities

[Home Depot, p. 35]

The Home Depot, Inc. Consolidated Statements of Cash Flows

Cash Flows from Operating Activities:

Net earnings

Reconciliations of net earnings to net cash provided by operating activities:

Depreciation and amortization

Stock-based compensation expense

Impairment loss

Changes in receivables, net

Changes in merchandise inventories

Changes in current assets

Changes in accounts payable and accrued expenses

Changes in deferred revenue

Changes in income taxes payable

Changes in deferred income taxes

Other operating activities

Net cash provided by operating activities

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43

Investing Activities

Buying and selling long-term assets (land, building, equipment) [Home Depot, p. 35]

The Home Depot, Inc. Consolidated Statements of Cash Flows

Cash Flows from Investing Activities:

Capital expenditures, net of non-cash capital expenditures

Payments for businesses acquired, net

Proceeds from sales of property and equipment

Other investing activities

Net cash used in investing activities



Financing Activities

Cash obtained from or repaid to owners and creditors (loans, repayments, stock issuance).

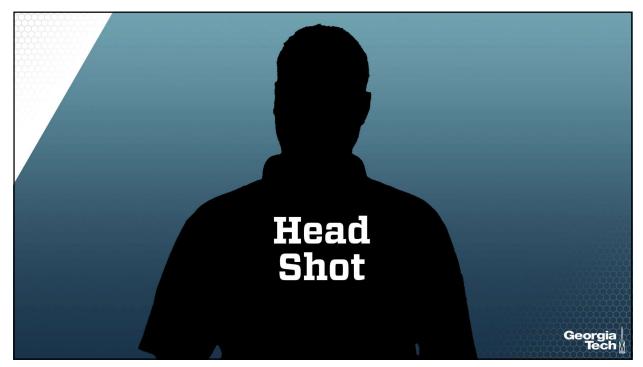
[Home Depot, p. 35]

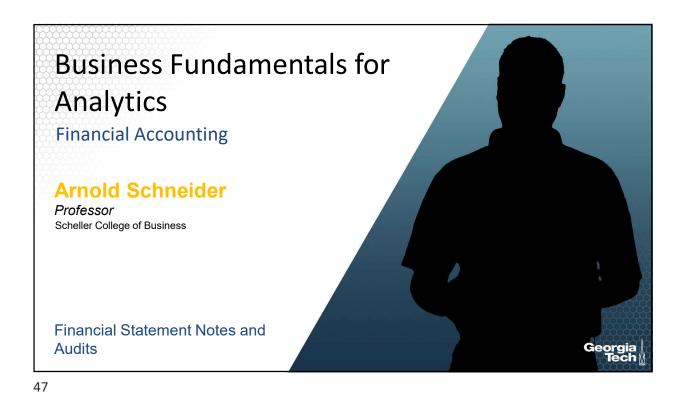
The Home Depot, Inc. Consolidated Statements of Cash Flows

Cash Flows from Financing Activities:
(Repayments of) proceeds from short-term debt. net
Proceeds from long-term debt, net of discounts
Repayments of long-term debt
Repurchases of common stock
Proceeds from sales of common stock
Cash dividends
Other financing activities
Net cash used in financing activities
Change in cash and cash equivalents
Effect of exchange rate changes on cash and cash equivalents
Cash and cash equivalents at the of year

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45





Notes to the Financial Statements

 Summary of significant accounting policies: assumptions, estimates, and judgments. [NCR, p. 58]

"Earnings Per Share. Basic earnings per share (EPS) is calculated by dividing net income, less any dividends, accretion or decretion, redemption or induced conversion on our Series A Convertible Preferred Stock, by the weighted average number of shares outstanding during the reported period.

In computing diluted EPS, we adjust the numerator used in the basic EPS computation, subject to antidilution requirements, to add back the dividends (declared or cumulative undeclared) applicable to the Series A Convertible Preferred Stock. Such add-back would also include any adjustments to equity in the period to accrete the Series A Convertible Preferred Stock to its redemption price, or recorded upon a redemption or induced conversion. We adjust denominator used in the basic EPS computation, subject to anti-dilution requirements, to include the dilution from potential shares resulting from the issuance of Series A Convertible Preferred Stock, restricted stock units, and stock options." [NCR, p. 58]



Notes to the Financial Statements (Cont'd)

• Additional information about the summary totals. [NCR, p. 53]

NCR Corporation Notes to Consolidated Balance Sheets							
As of December 31 (in millions except per share amounts)		2018	2	2017			
Assets							
Current assets							
Cash and cash equivalents	\$	464	\$	537			
Accounts receivable, net		1,356	1,	,270			
Inventories		806		780			
Other current assets		397		243			
Total current assets		3,023	_ 2	,830			
Property, plant and equipment, net		359		341			
Goodwill		2,692	2	741			

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49

Notes to the Financial Statements (Cont'd)

Additional information about the summary totals. [NCR,108]

NCR Corporation Notes to Consolidated Financial Statements							
As of December 31 (in millions except per share amounts)	Dec 31, 2018		-	Dec 31, 2017			
Property, plant and equipment							
Land and improvements	\$	6	\$	7			
Buildings and improvements		273		278			
Machinery and other equipment		650		633			
Property, plant and equipment, gross		929		918			
Less: accumulates depreciation		(570)		(577)			
Total property, plant and equipment, net	\$	359	\$	341			

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Audits

- Issued by independent CPA firms.
- · CPAs attest to conformity with GAAP ("present fairly").
- Financial statement *opinion*: unqualified (clean), modified, adverse [UPS, p. 65]

"In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America." [UPS, p. 65]



51

Audits

- Financial statements are the responsibility of the company's management and not the CPA. [UPS, p. 65]
- Sarbanes-Oxley Act of 2002: Opinions on internal controls [Home Depot, p. 30]

"These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits." [UPS, p. 65]

"We also have audited, in accordance with the standards of the PCAOB, Home Depot's internal control over financial reporting." [Home Depot, p. 30]

"and our report dated March 28, 2019 expressed an unqualified opinion on the effectiveness of the Company's internal control over financial reporting." [Home Depot, p. 30]

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