CORPORATE FINANCE: SPRING 2019

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Ponderous Thoughts, or maybe not

- 1. There are few facts and lots of opinions.
 - a. Even the givens (cash & risk free rate) are not.
 - b. With accounting and market numbers, all bets are off.
- 2. The real world is a messy place.
 - a. Money making firms can become money losers
 - b. Companies can be restructured/given facelifts
- Models don't compute values and optimal paths. You do.
- 4. Change is the only constant. Everything changes all the time.

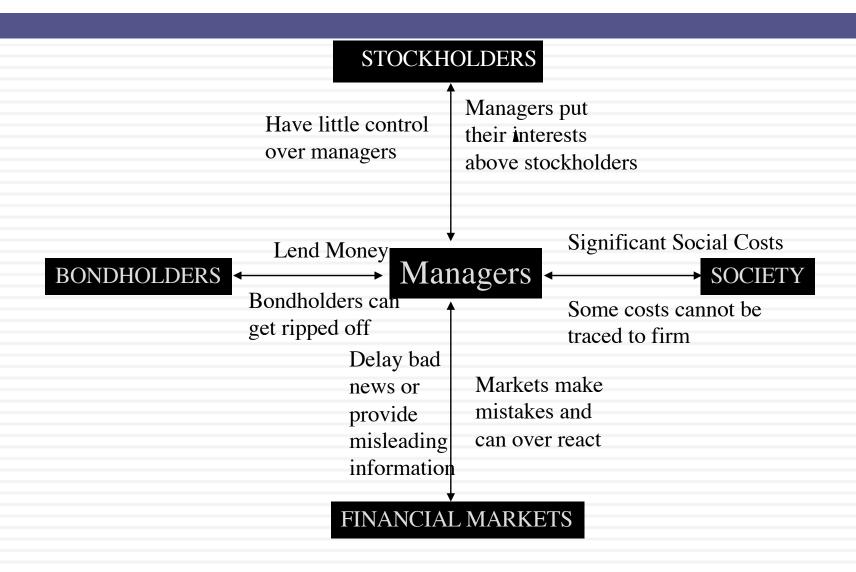
The most analyzed companies this semester were..

Company	Number of analyses
Expedia	4
EA	4
Lululemon	4
Marriott	4
Salesforce	4
Activistiion Blizzard	5
Netflix	5
Chipotle	5

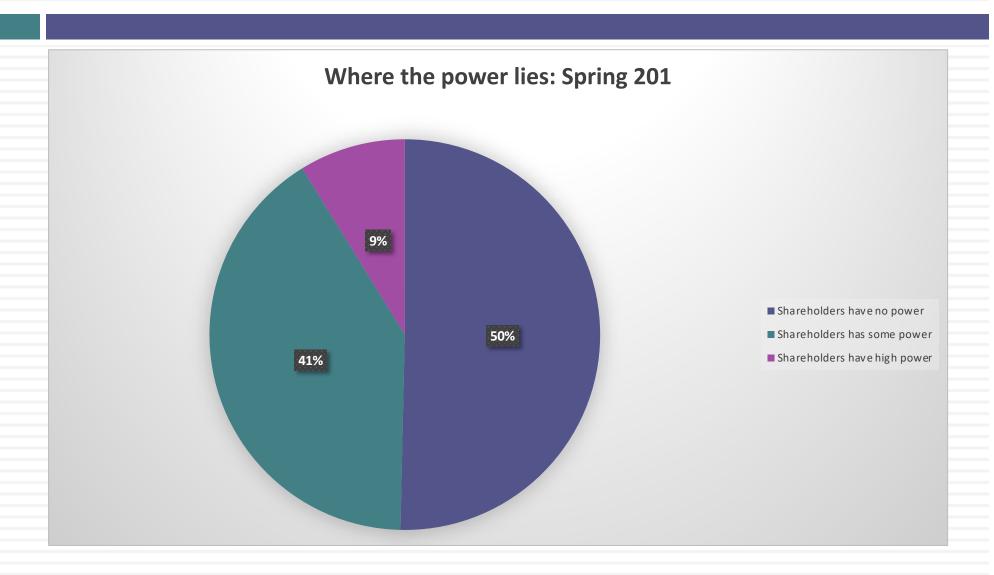
And here's why you can do the same company..

Company	Beta	Jensen's Alpha	R squared	ROE - COE	ROC - WACC	EVA	Current	Optimal Debt Ratio	Dividends	FCFE		Price/Shar
Company	Deta	Аірпа	ik squareu	NOL - COL	VVACC	Ś	Debtratio	Debt Ratio	Dividends	TCL	e	е
Activision	0.85	-2.44%	11.60%	0.09%	0.58%	127.80	7.81%	10.00%	226.67	\$826.67	\$ 42.01	\$ 48.00
Activision	1.31	14.75%	23.40%	6.41%	8.42%	\$1,752	7.63%	30.00%	\$259	\$1,243.30	\$39.34	\$46.07
Activision Blizzard	1.18	-13.84%	10.00%	6.27%	10.70%	\$ 980.30	6.40%	30.00%	259	1,117.90	\$ 47.45	\$ 49.00
Activision Blizzard	1.31	14.75%	9.90%	-4.42%	-0.19%	-\$27.64	12.24%	40%	\$286.40	\$1,162	\$46.45	\$46.02
Activision Blizzard	1.06	14.86%	0.10%	7.17%	-0.69%	\$ (335.00)	7.42%	40.00%	\$198.00	\$31,098	\$ 42.80	\$ 46.02

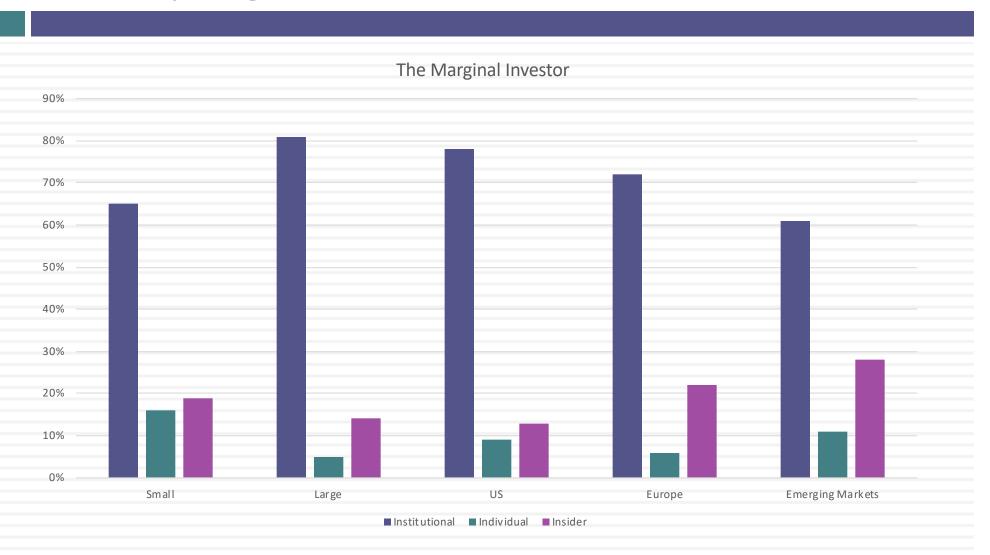
The Breakdown in the Classical Objective Function



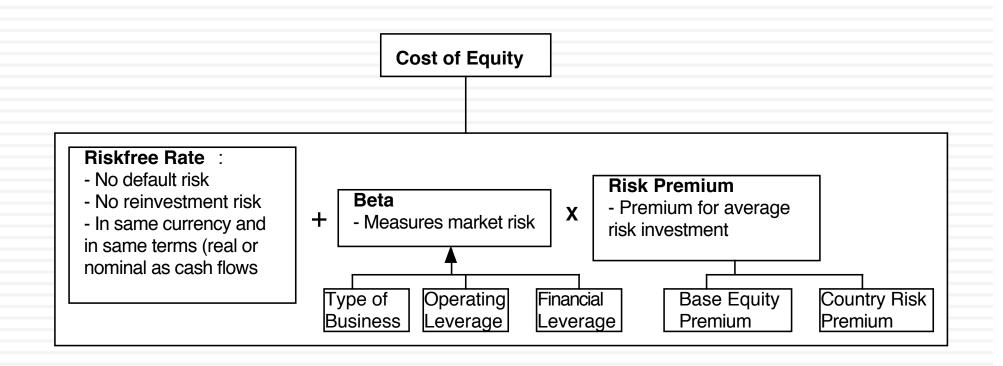
I. Where does the power lie?



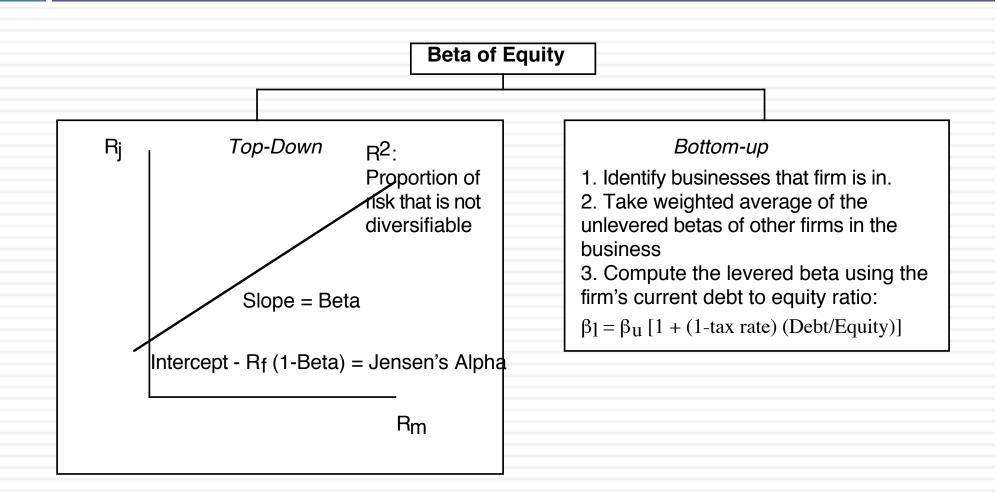
II. Who is your marginal investor?From Spring 2017



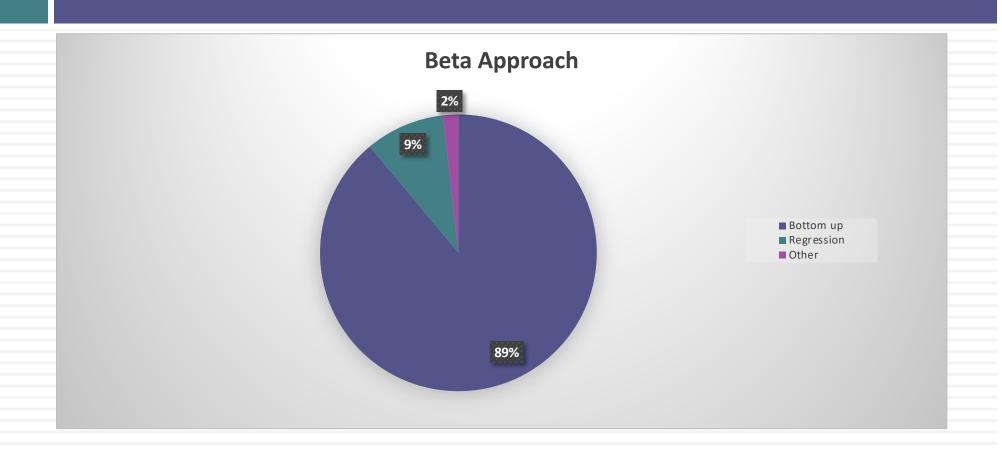
III. Risk Profiles and Costs of Equity



Beta: The Standard Approach



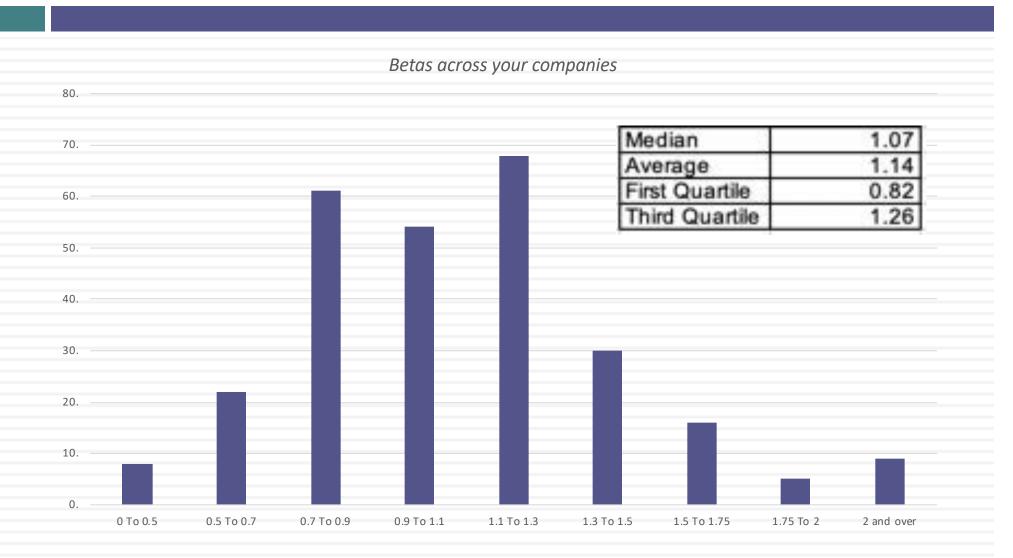
Your choice on beta approach



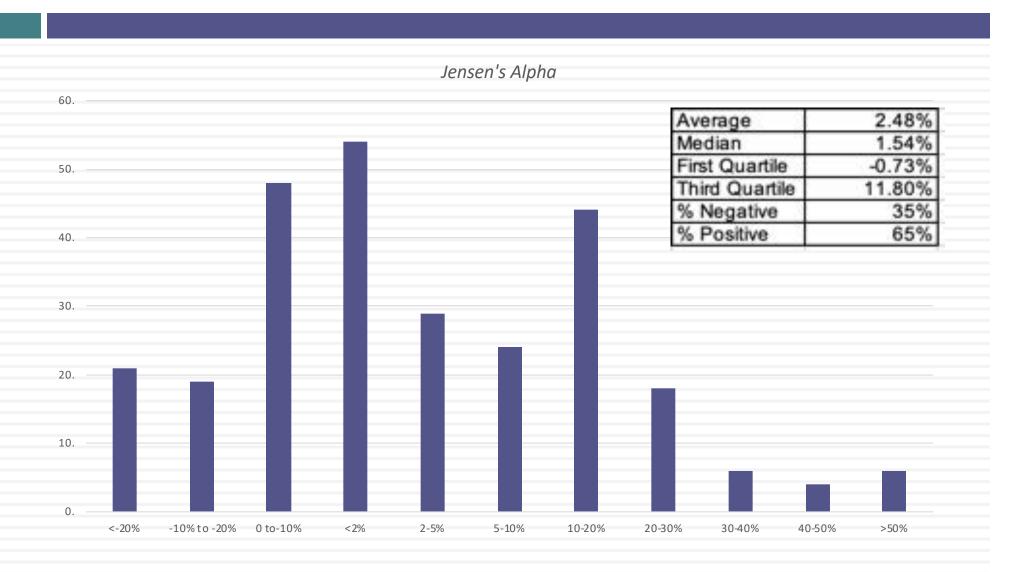
Typical reasons

- 1. My company is unique. I cannot find comparable firms.
- 2. My company is in only one line of business
- 3. My bottom-up beta is too different from my regression beta

Beta Distribution



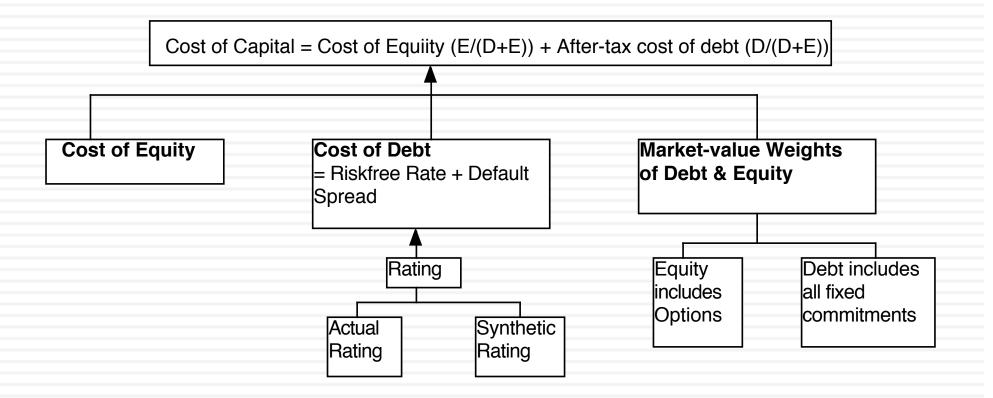
Jensen's Alpha Distribution



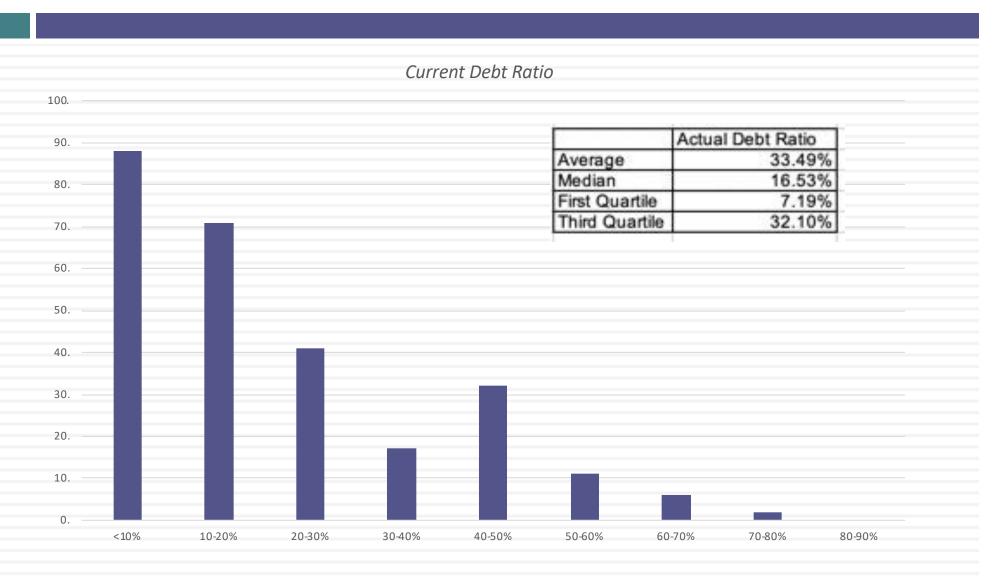
R Squared



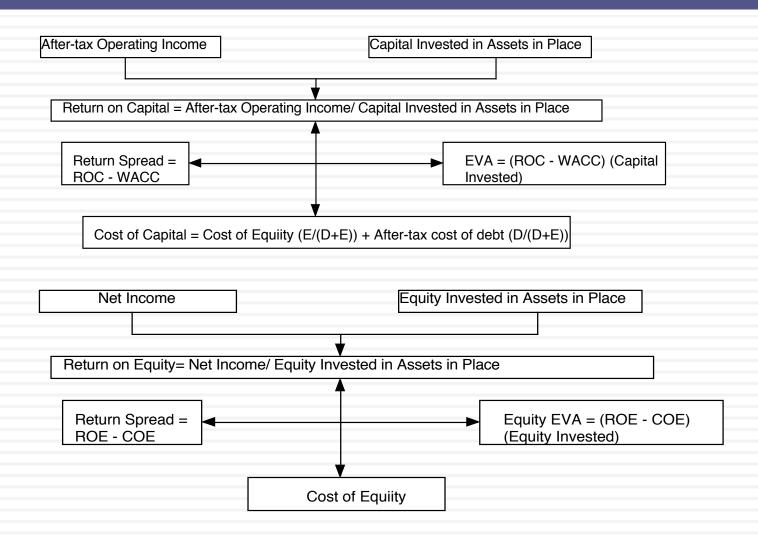
Cost of Capital



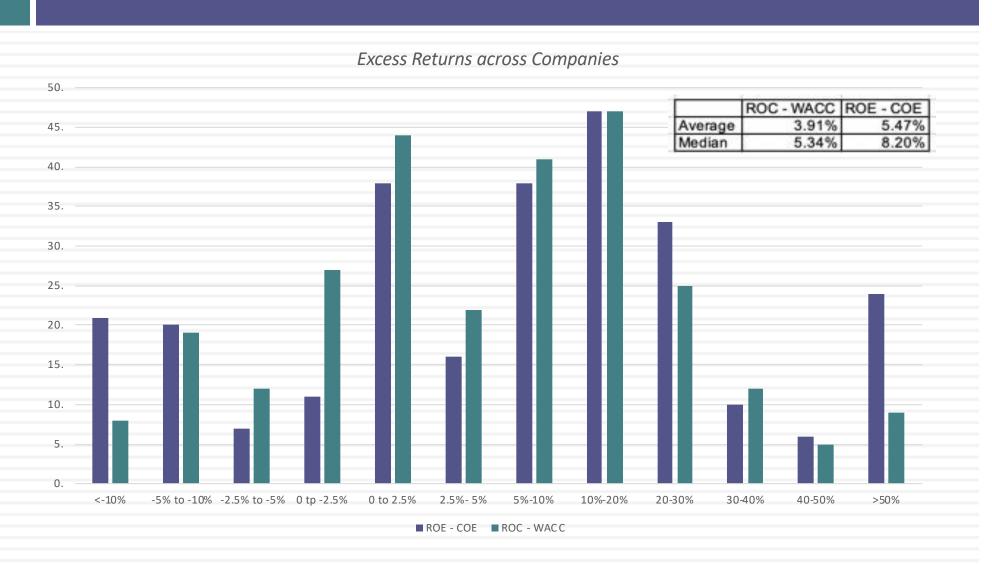
Distribution of Current Market Value Debt Ratios



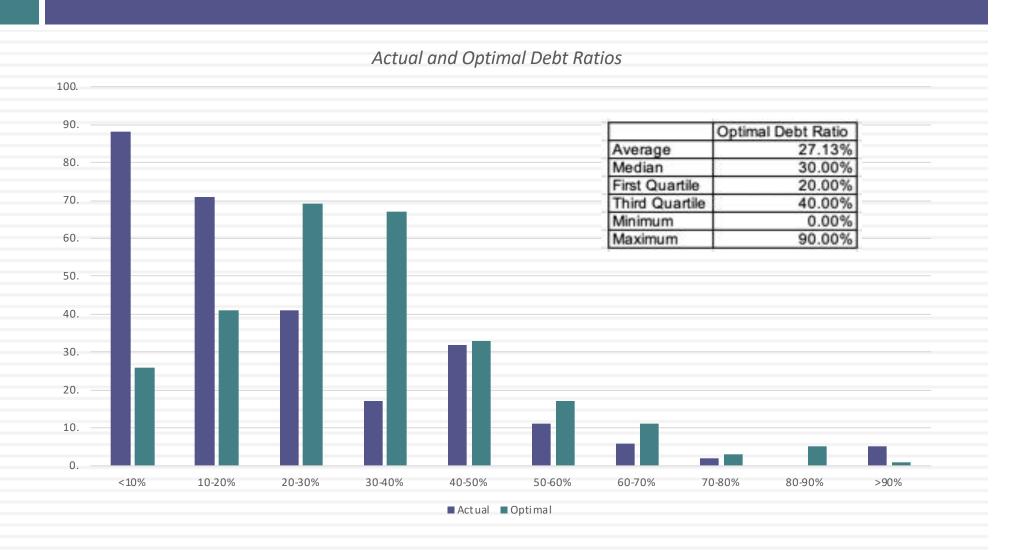
IV. The Quality of Investments: The Firm View



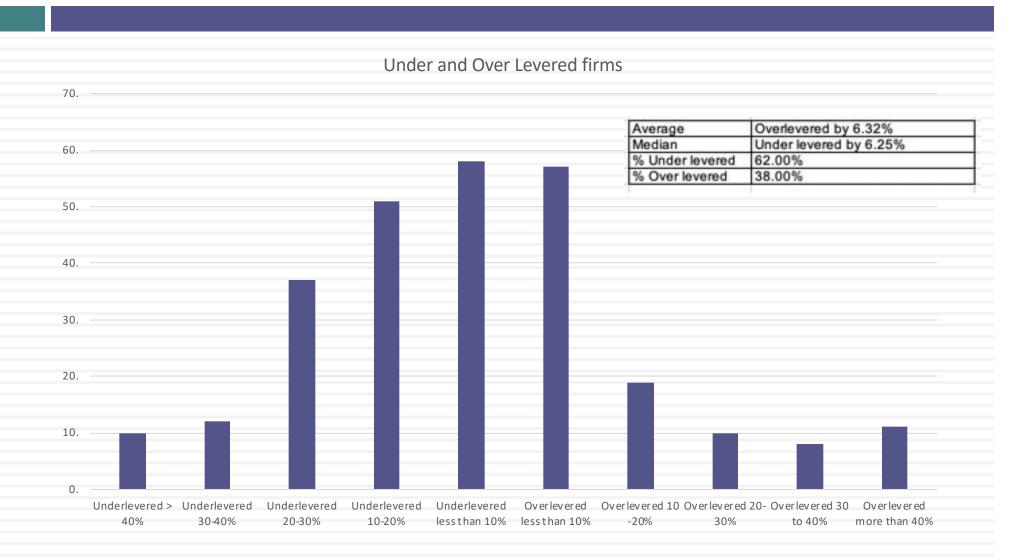
Return Spreads



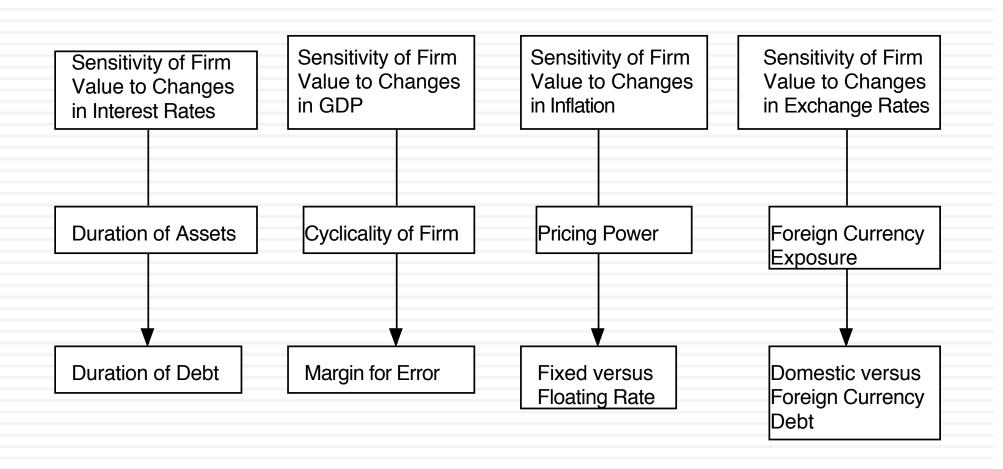
VI. The Optimal Financing Mix



Under versus Over Levered Firms



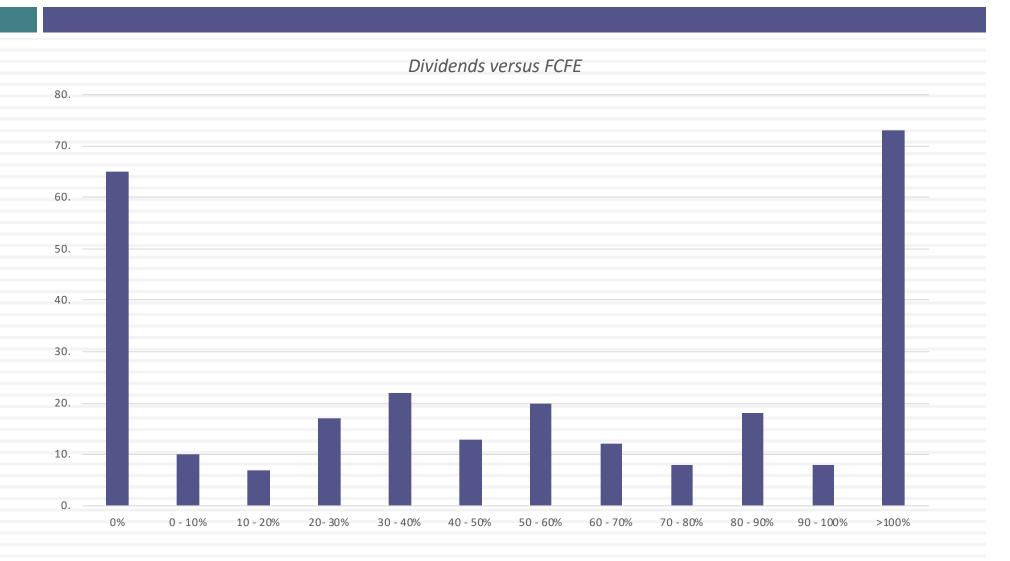
VIII. The Right Kind of Financing



IX. Measuring Potential Dividends

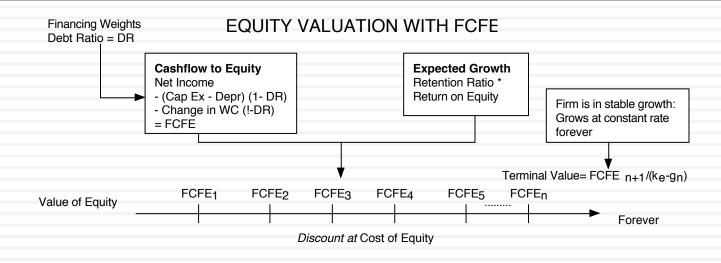
Begin with the net income (which is after interest expenses and taxes) Add back the non-cash charges such as depreciation & amortization Subtract out reinvestment needs - Capital expenditures - Investments in Non-cash Working Capital (Change) Subtract out payments to non-equity investors - Principal Repayments - Preferred Stock Dividends Add any cash inflows from new debt - New Debt Issues To get to the Cash that is available for return to Owners

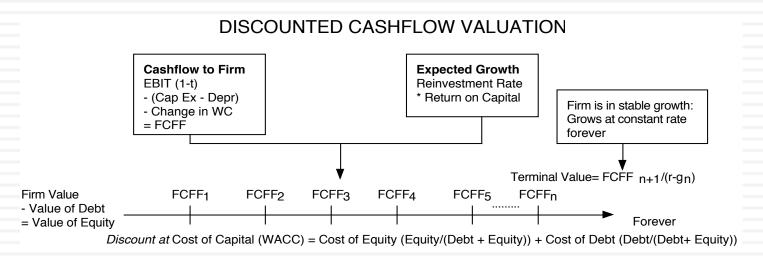
Dividends versus FCFE



X. Valuation:

Match up cashflows and discount rates...

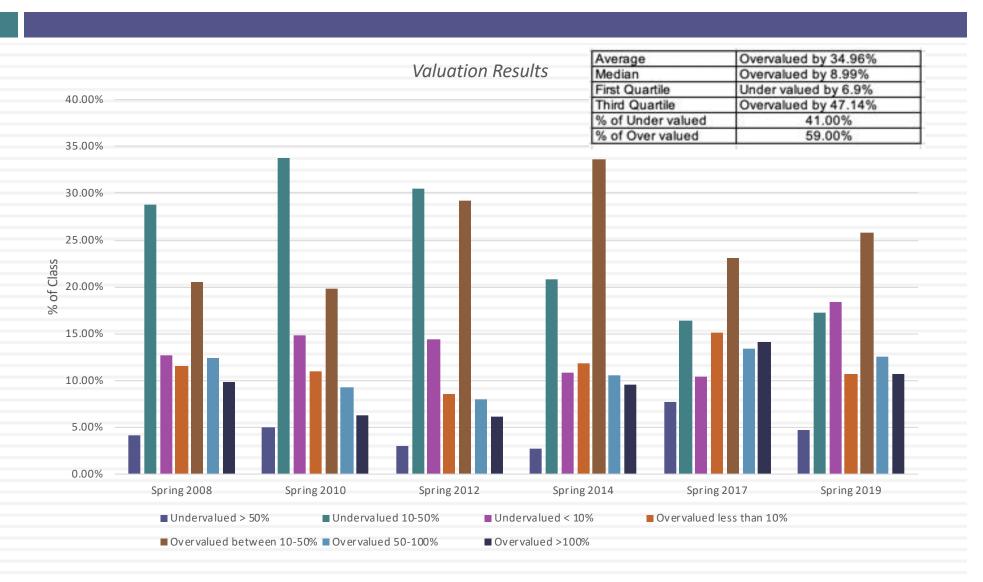




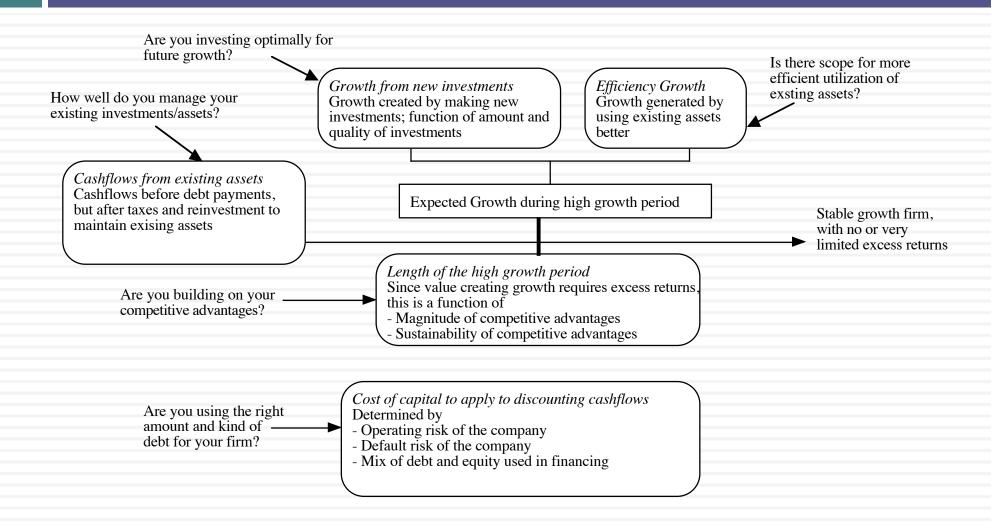
Getting to equity value per share

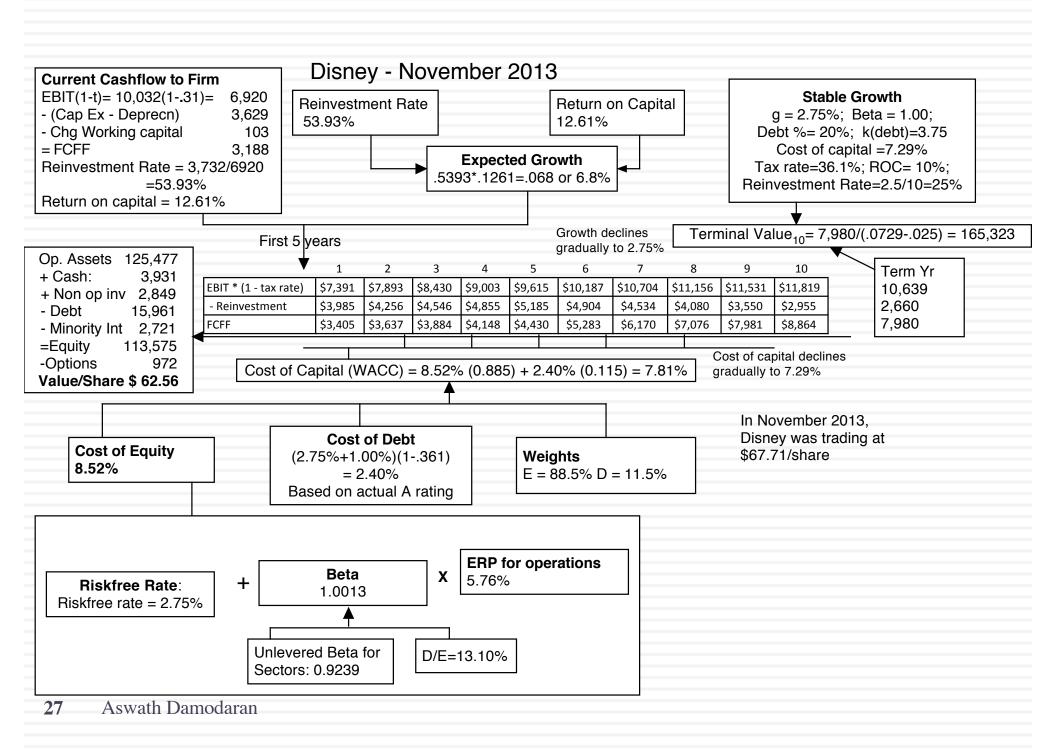
Approach used	To get to equity value per share
Discount dividends per share at the cost of equity	Present value is value of equity per share
Discount aggregate FCFE at the cost of equity	Present value is value of aggregate equity. Subtract the value of equity options given to managers and divide by number of shares.
Discount aggregate FCFF at the cost of capital	PV = Value of operating assets + Cash & Near Cash investments + Value of minority cross holdings - Debt outstanding = Value of equity - Value of equity options = Value of equity in common stock / Number of shares

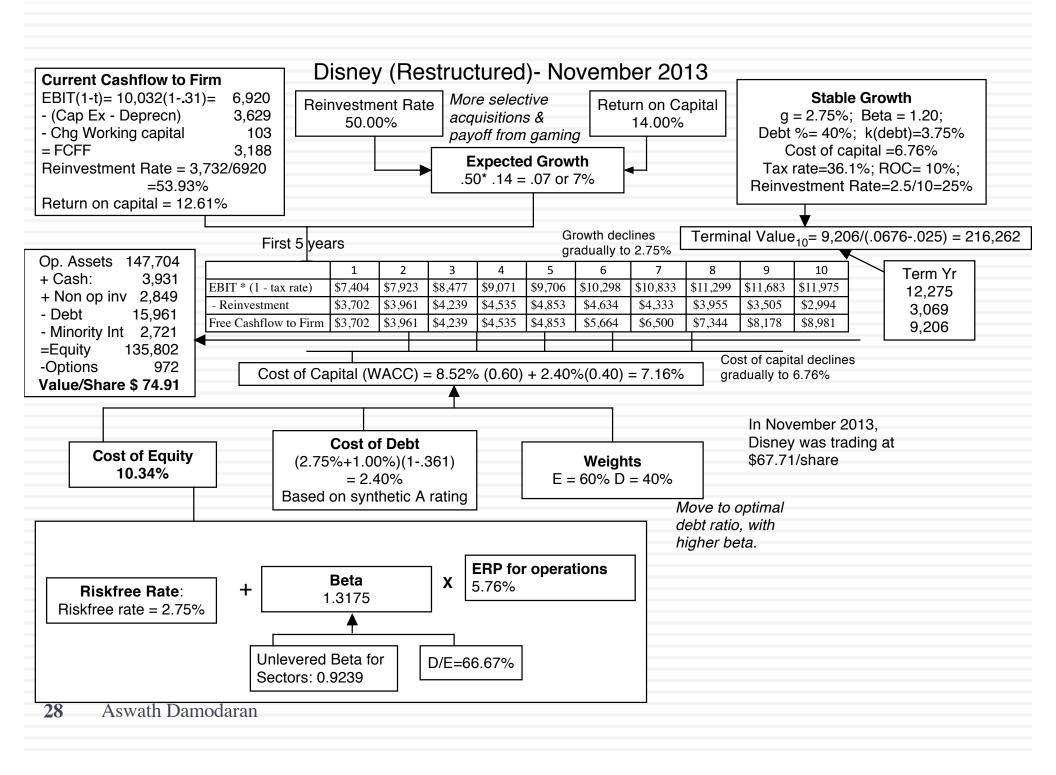
Value versus Price



Ways of changing value...







So, how do you explain the price? Its all relative..

	Ticker		Expected	
Company Name	Symbol	PE	Growth Rate	PEG
Point 360	PTSX	10.62	5.00%	2.12
Fox Entmt Group Inc	FOX	22.03	14.46%	1.52
Belo Corp. 'A'	BLC	25.65	16.00%	1.60
Hearst-Argyle Television Inc	HTV	26.72	12.90%	2.07
Journal Communications Inc.	JRN	27.94	10.00%	2.79
Saga Communic. 'A'	SGA	28.42	19.00%	1.50
Viacom Inc. 'B'	VIA/B	29.38	13.50%	2.18
Pixar	PIXR	29.80	16.50%	1.81
Disney (Walt)	DIS	29.87	12.00%	2.49
Westwood One	WON	32.59	19.50%	1.67
World Wrestling Ent.	WWE	33.52	20.00%	1.68
Cox Radio 'A' Inc	CXR	33.76	18.70%	1.81
Beasley Broadcast Group Inc	BBGI	34.06	15.23%	2.24
Entercom Comm. Corp	ETM	36.11	15.43%	2.34
Liberty Corp.	LC	37.54	19.50%	1.92
Ballantyne of Omaha Inc	BTNE	55.17	17.10%	3.23
Regent Communications Inc	RGCI	57.84	22.67%	2.55
Emmis Communications	EMMS	74.89	16.50%	4.54
Cumulus Media Inc	CMLS	94.35	23.30%	4.05
Univision Communic.	UVN	122.76	24.50%	5.01
Salem Communications Corp	SALM	145.67	28.75%	5.07
Average for sector		47.08	17.17%	2.74

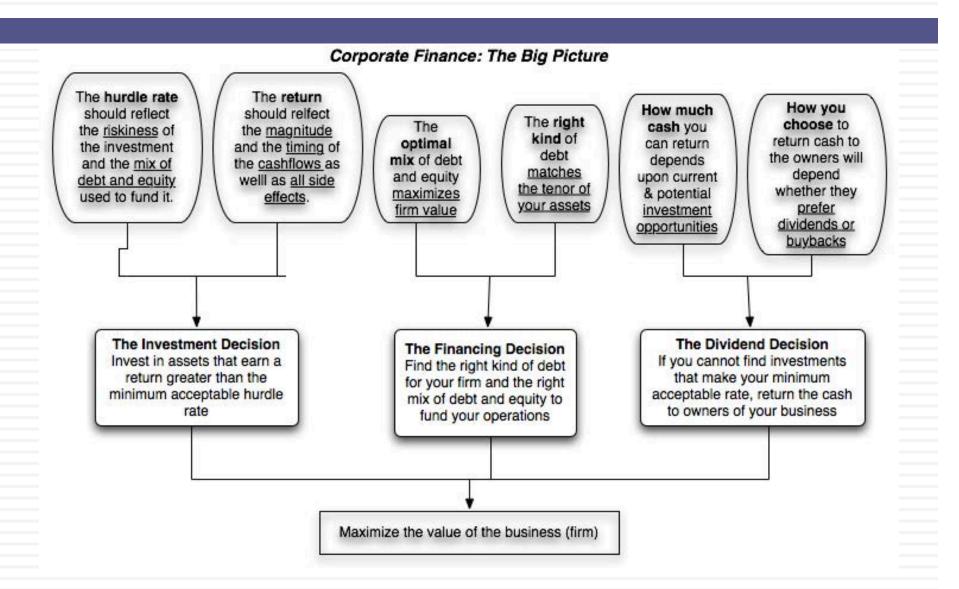
Most undervalued stocks!!

Company	Value/share	Price/Share	Price/Value
Delta Airlines	\$84.24	56.62%	0.67%
SunPower	\$ 65.47	\$ 7.38	11.27%
Target	\$ 193.49	\$ 75.98	39.27%
The Gap	\$ 55.31	\$ 24.36	44.04%
Pioneer Natural	\$ 326.67	\$ 151.65	46.42%
Southwest (USD)	\$116.64	\$54.23	46.49%
Nautilus	\$ 8.42	\$ 4.10	48.69%
Macy's	\$ 45.72	\$ 23.43	51.25%
Best Buy	\$ 141.13	\$ 74.96	53.11%
Total SA	\$ 102.24	\$ 55.18	53.97%
Chuy's	\$38.12	\$22.82	59.86%
Expedia	\$ 195.22	\$ 118.78	60.84%
Potbelly	\$ 10.72	\$ 6.54	61.01%
Analog Devices	\$179.29	\$110.60	61.69%
Jetblue	\$ 29.46	\$ 18.44	62.59%
United (USD)	\$140.30	\$88.86	63.34%

The Triple Whammy: Underlevered, Cash Build-up and Under valued?

	Jensen's		ROC -	Current Deht	Optimal Debt				
Company	Alpha	ROE - COE	WACC	ratio	Ratio	Dividends	FCFE	Value/share	Price/Share
Southwest (USD)	8.1%	18.5%	11.5%	14.0%	30.0%	332	2337	\$116.64	\$54.23
Best Buy	16.62%	36.26%	25.39%	16.49%	30.00%	\$ 497.00	\$ 1,395.91	\$ 141.13	\$ 74.96
Total SA	-2.67%	6.25%	4.66%	27.38%	40.00%	\$5,542.00	\$14,775.00	\$ 102.24	\$ 55.18
Jetblue	-0.261	-3.71%	-3.10%	31.44%	50%	0	109	\$ 29.46	\$ 18.44
Samsung	4.42%	9.06%	9.08%	4.90%	70.00%	\$4,563.90	\$23,242.98	\$ 58.31	\$ 41.17
Viacom	-1.25	12.88%	1.95%	48.58%	60.00%	\$2,147.67	\$2,198.67	\$41.15	\$30.15
Supernus									
Pharmaceuticals	-0.85%	16.54%	19.42%	14.61%	30.00%	0	\$2,608.00	\$48.82	\$36.41
Facebook	3.19%	14.56%	7.36%	0.00%	20.00%	14855	\$40,163	\$ 245.32	\$ 188.34
Walgreens	-0.59%	44.32%	17.69%	36.96%	50.00%	1385	6182.2	\$ 68.20	\$ 53.42
Planet Fitness	1.10%	n/a	13.51%	21.10%	40.00%	139.51	288.96	\$ 84.98	\$74.17
Intel	11.30%	30.62%	14.33%	10.20%	50%	\$10,412.20	\$12,188.20	\$ 55.26	\$ 49.24

First Principles



Objectives of this class

- If you get the big picture, the details will come (sooner or later)
- Tools are useful but only in the larger context of answering bigger questions.
- Corporate finance is not so bad !!!

And have a great summer!

