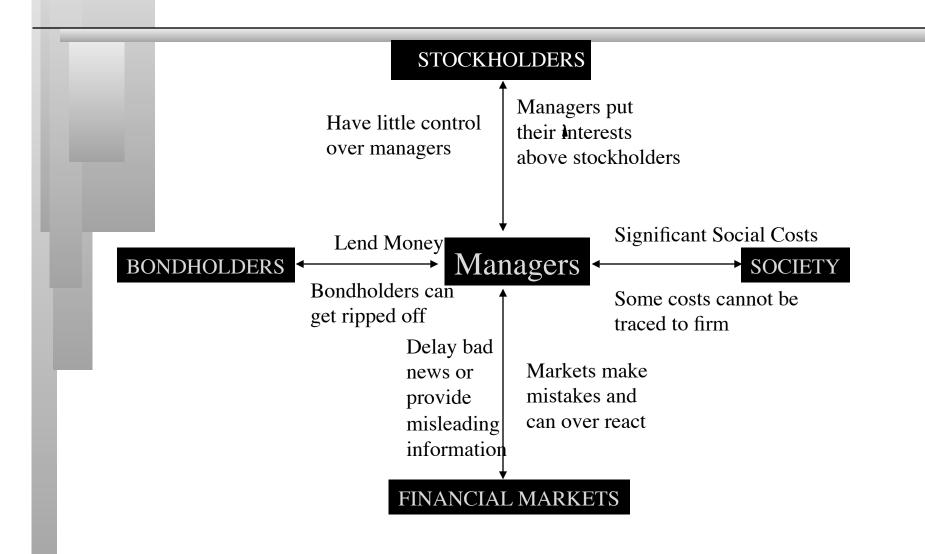
Corporate Finance: Spring 2010

Aswath Damodaran

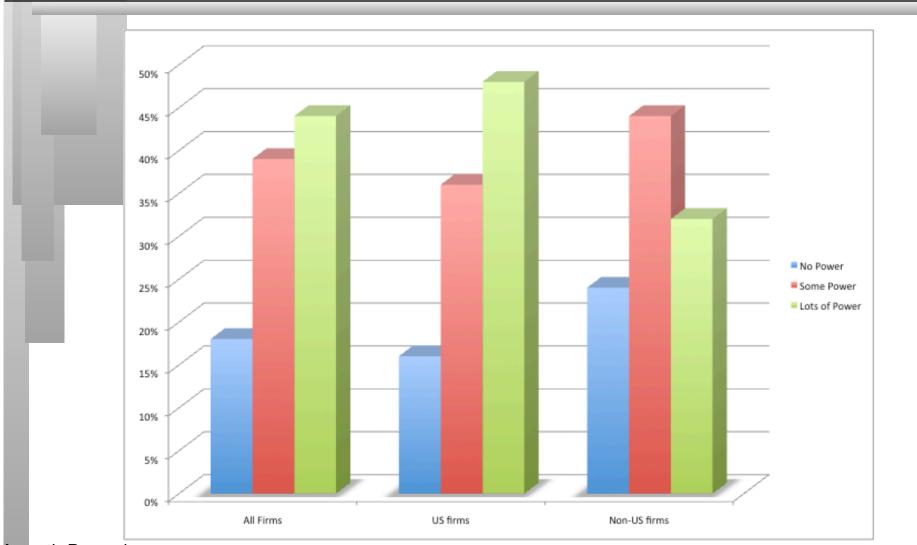
Ponderous Thoughts... (or maybe not)

- There are few facts and lots of opinions...
- The real world is a messy place...
 - The model is your tool... Not the other way around...
 - Change is the only constant...

The Breakdown in the Classical Objective Function

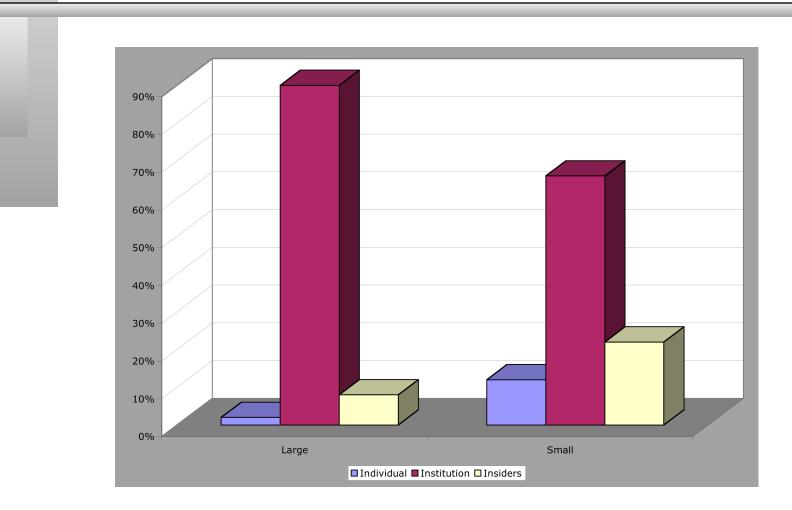


I. Where does the power lie?

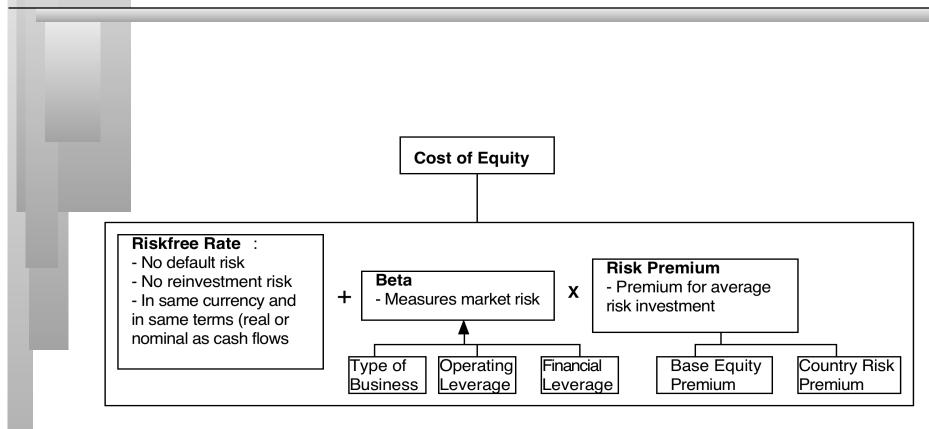


Aswath Damodaran

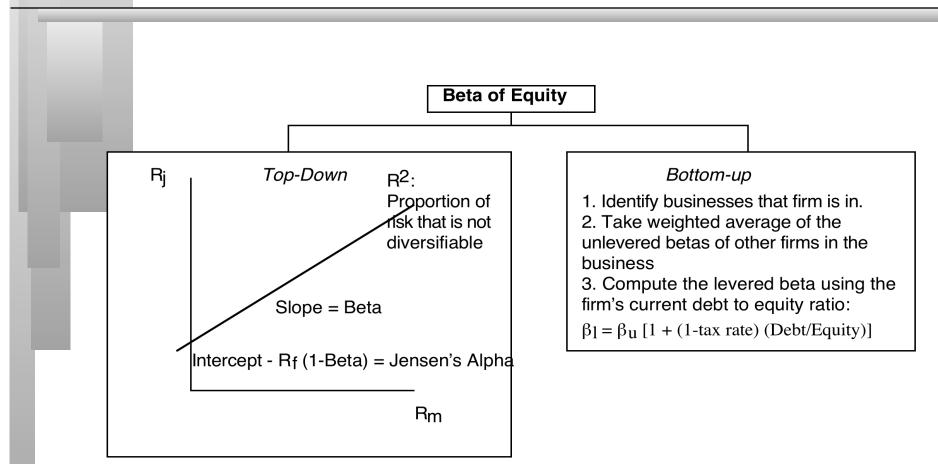
II. Who is your marginal investor? From Spring 2009



III. Risk Profiles and Costs of Equity



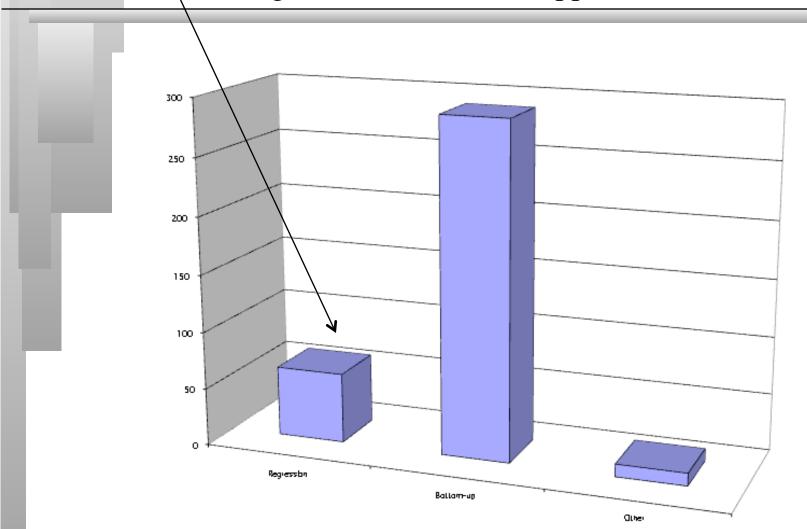
Beta: The Standard Approach



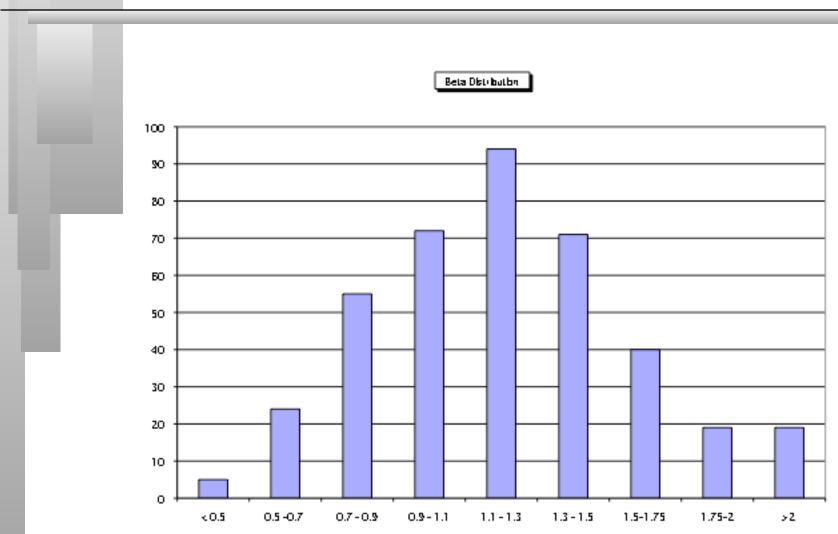
Typical reasons

- 1. My company is unique
- 2. My company is in only one line of business
- 3. My bottom-up beta is too different from my regression beta

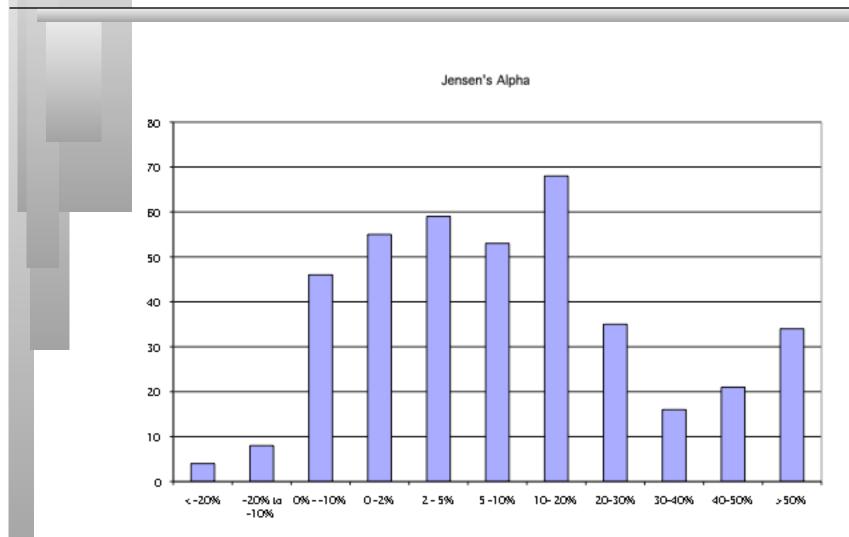




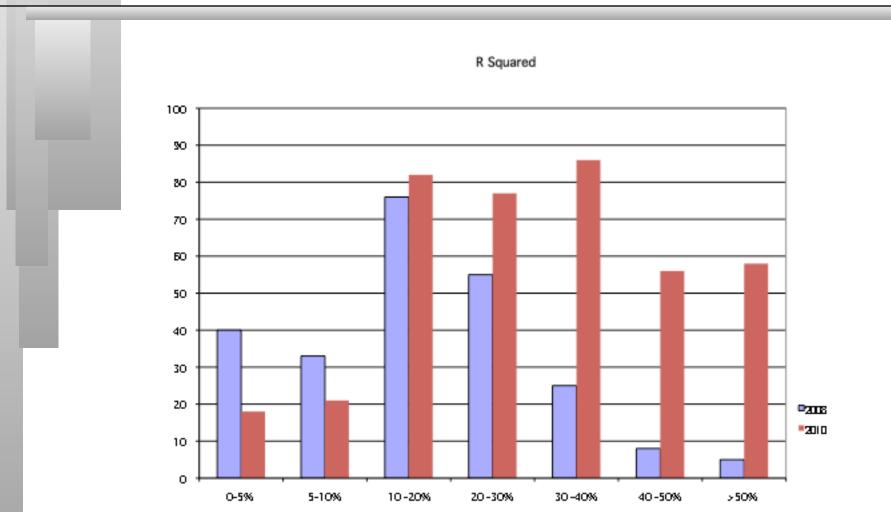
Beta Distribution



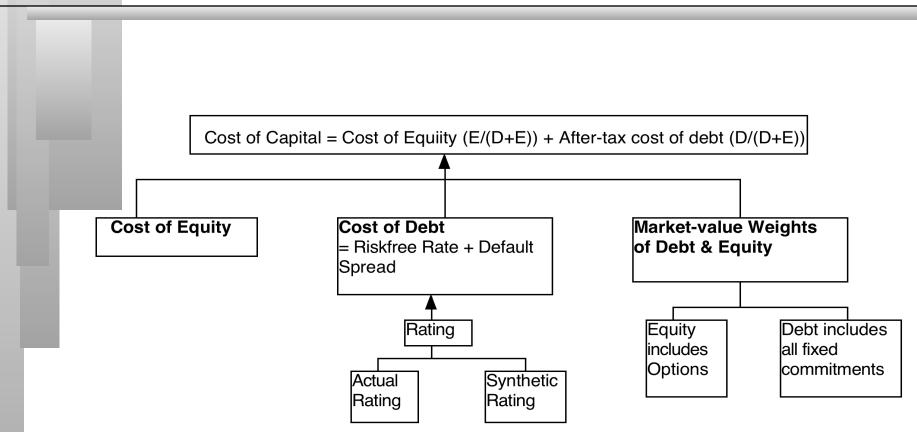
Jensen's Alpha Distribution



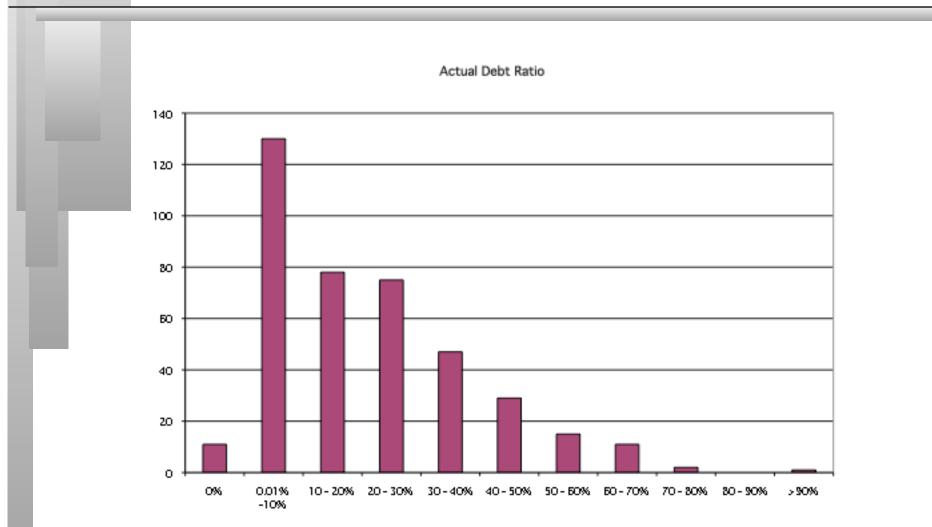
R Squared



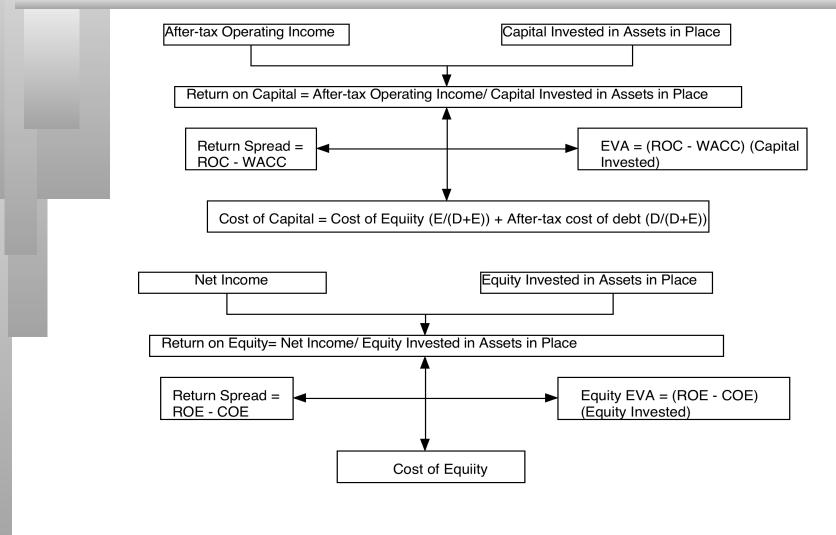
Cost of Capital



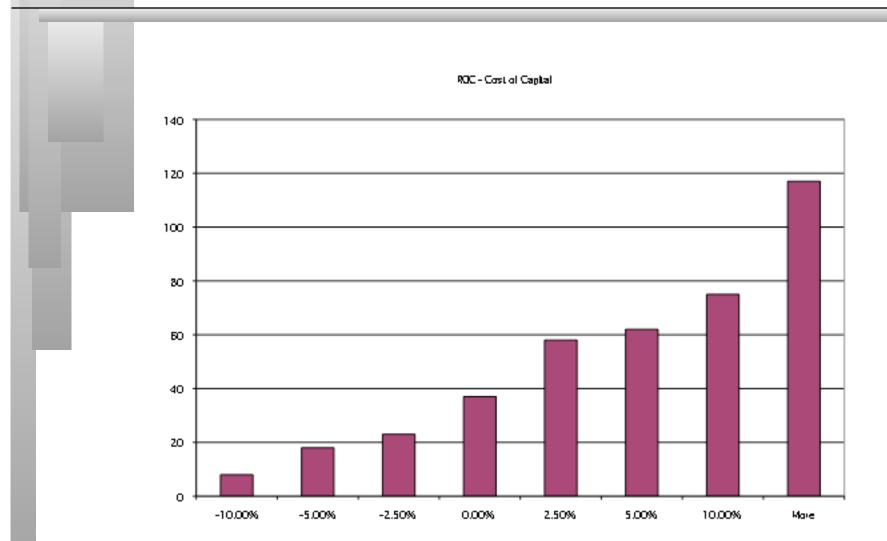
Distribution of Current Market Value Debt Ratios



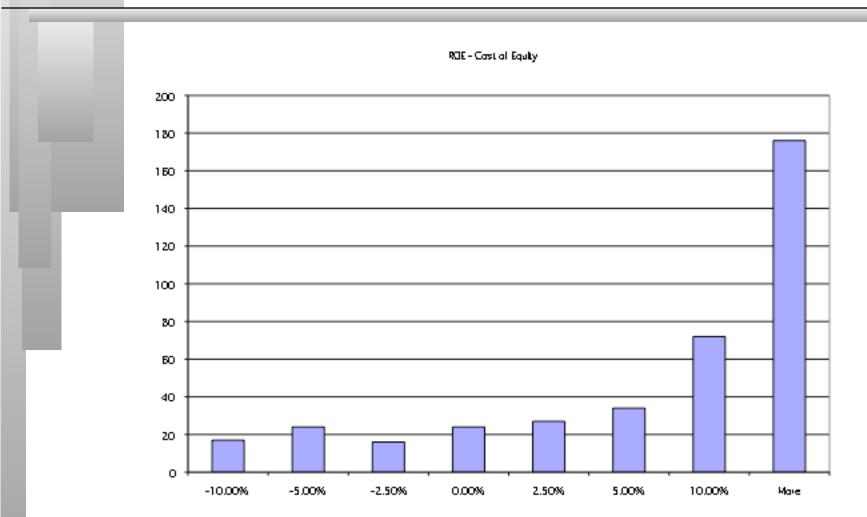
IV. The Quality of Investments: The Firm View



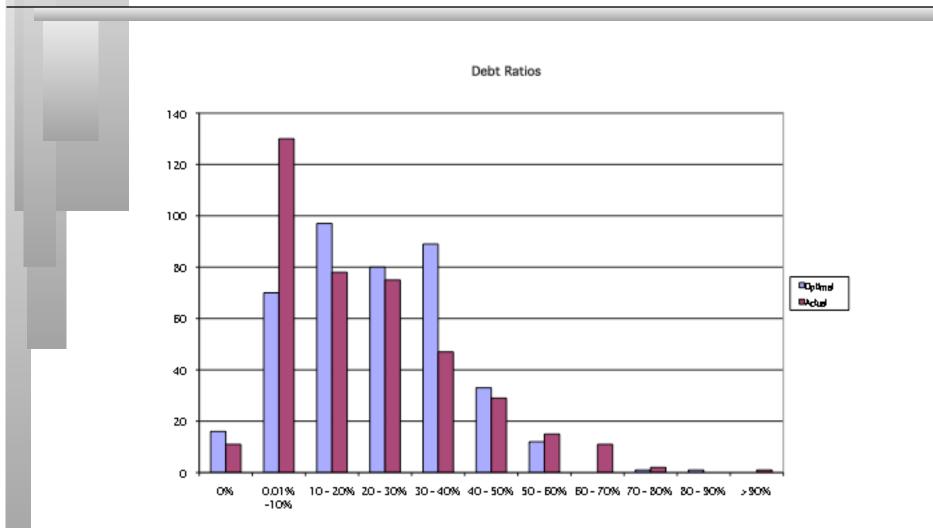
ROC versus Cost of Capital



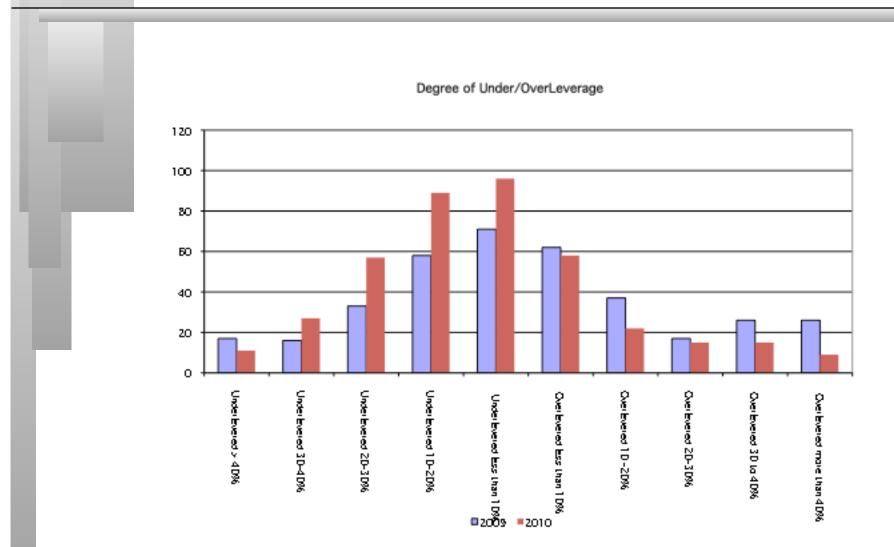
ROE versus Cost of Equity



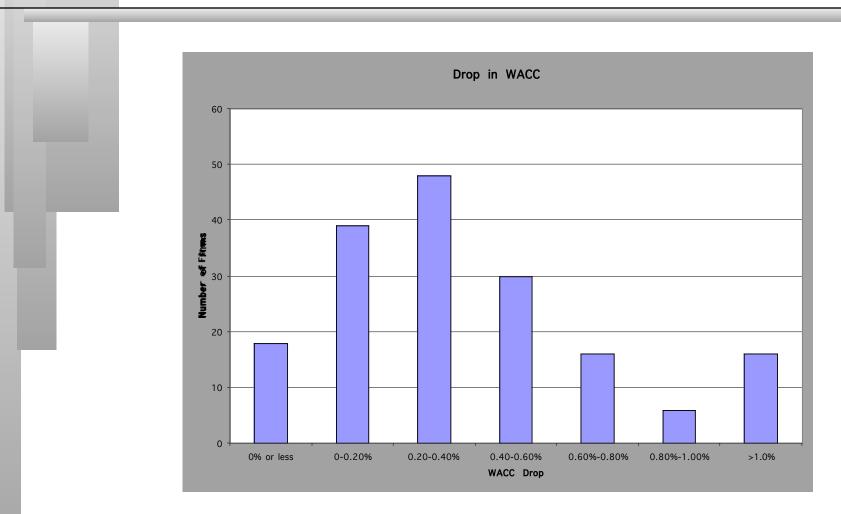
VI. The Optimal Financing Mix



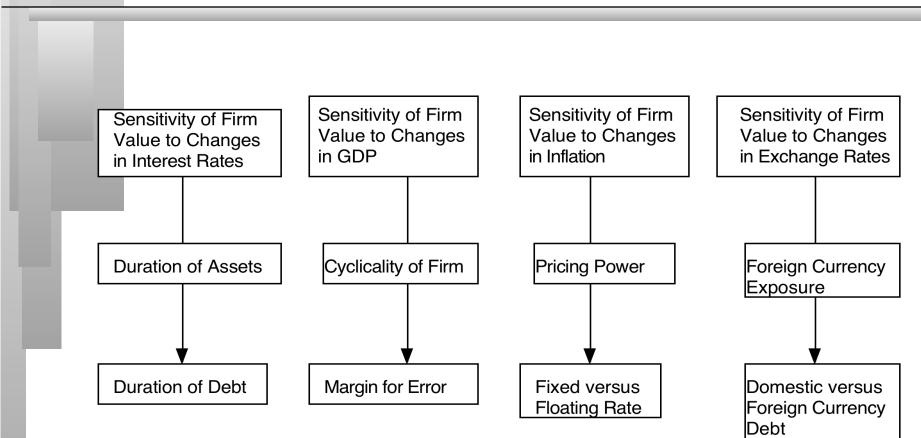
Under versus Over Levered Firms



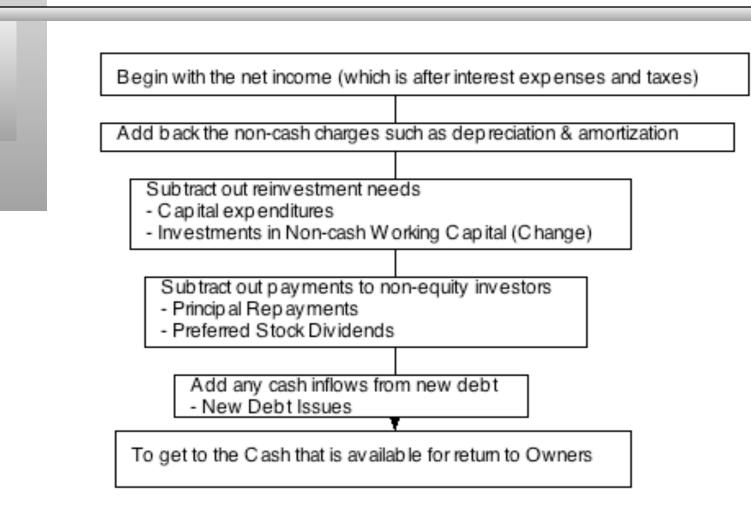
Change in Cost of Capital



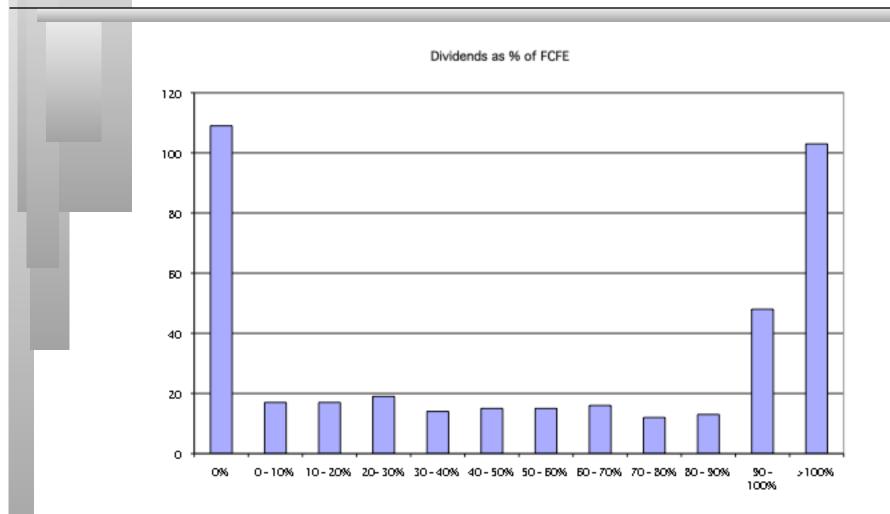
VIII. The Right Kind of Financing



IX. Measuring Potential Dividends

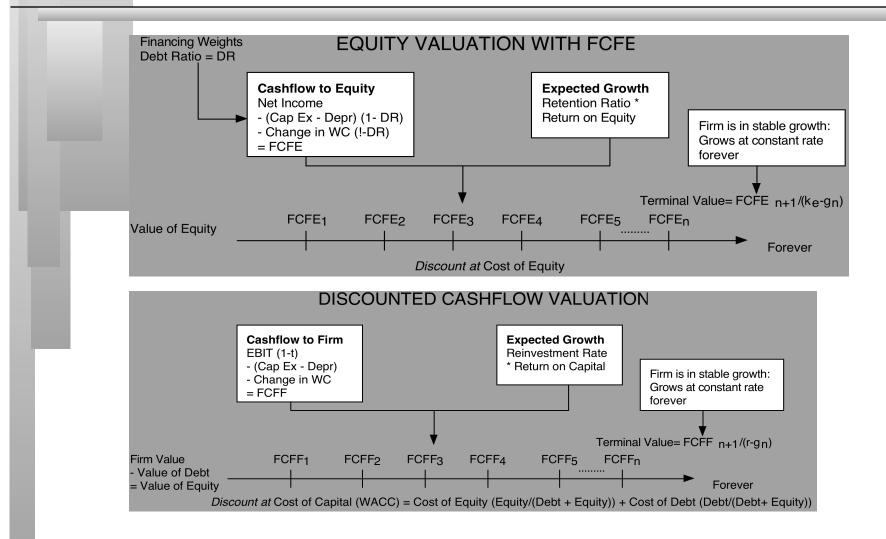


Dividends versus FCFE



X. Valuation:

Match up cashflows and discount rates...

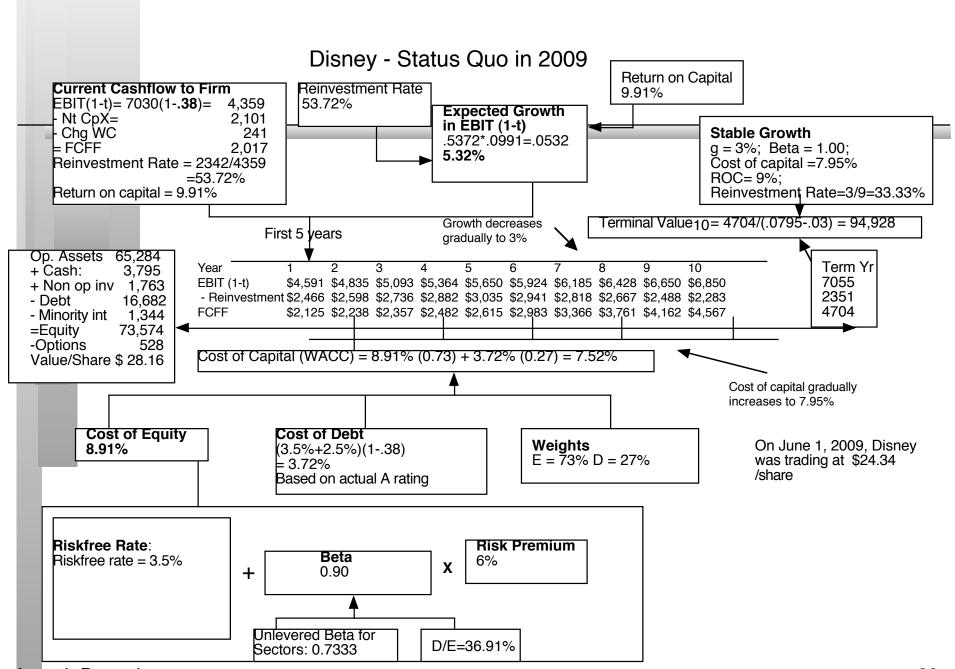


Getting to equity value per share

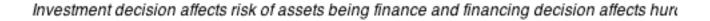
	Approach used	To get to equity value per share
	Discount dividends per share at the cost of equity	Present value is value of equity per share
	Discount aggregate FCFE at the cost of equity	Present value is value of aggregate equity. Subtract the value of equity options given to managers and divide by 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

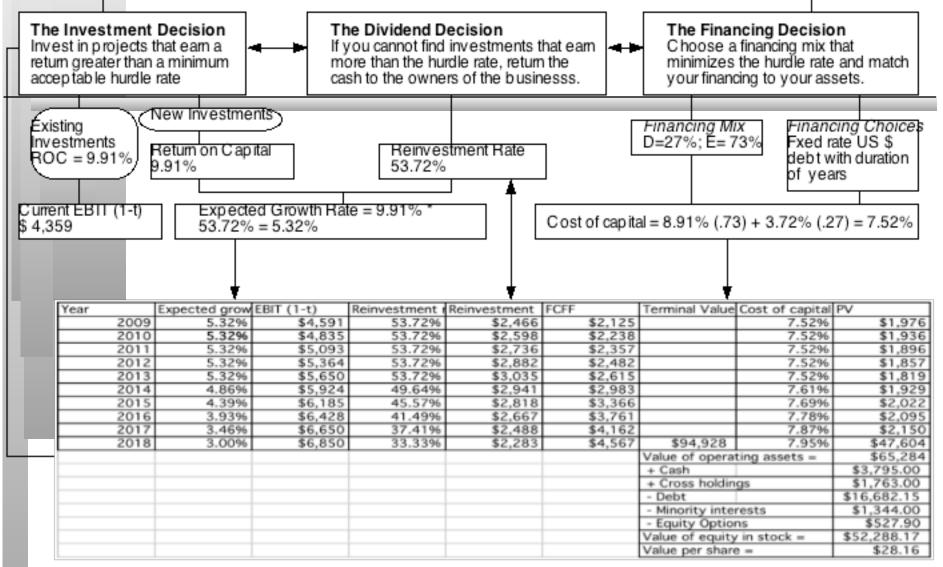
Disney: Inputs to Valuation

	High Growth Phase	Transition Phase	Stable Growth Phase	
Length of Period	5 years	5 years	Forever after 10 years	
Tax Rate	38%	38%	38%	
Return on Capital	9.91%	Declines linearly to 9%	Stable ROC of 9%	
Reinvestment Rate	53.72% (based on normalized	Declines to 33.33% as ROC	33.33% of after-tax operating	
(Net Cap Ex + Working Capital	acquisition costs)	and growth rates drop:	income, estimated from stable	
Investments/EBIT)		Reinvestment Rate = g/ROC	growth rate of 3% and return	
			on capital of 9%.	
			Reinvestment rate =	
			3/9=33.33%	
Expected Growth Rate in EBIT	ROC * Reinvestment Rate =	Linear decline to Stable	3%	
	12%*0.5318 = 6.38%	Growth Rate of 4%		
Debt/Capital Ratio	26.7%	Stays unchanged	Stays unchanged	
Risk Parameters	Beta = 0.9033 , k _e = $8.91\%\%$	Beta increases linearly to 1.00;	Beta = 1.00 ; k _e = 9.5%	
	Pre-tax Cost of Debt = 6%	Cost of debt stays at 6%	Cost of debt stays at 6%	
	Cost of capital = 7.52%	Cost of capital goes to 7.95%	Cost of capital = 7.95%	

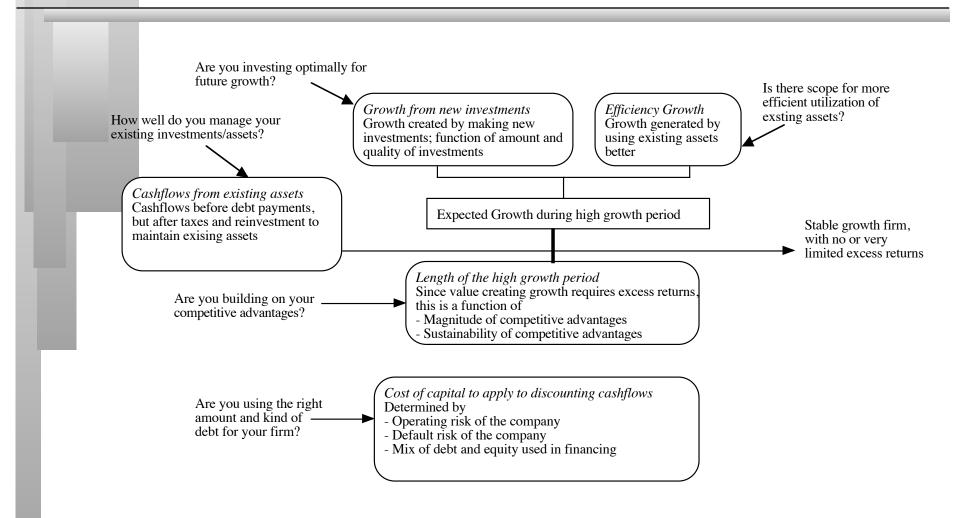


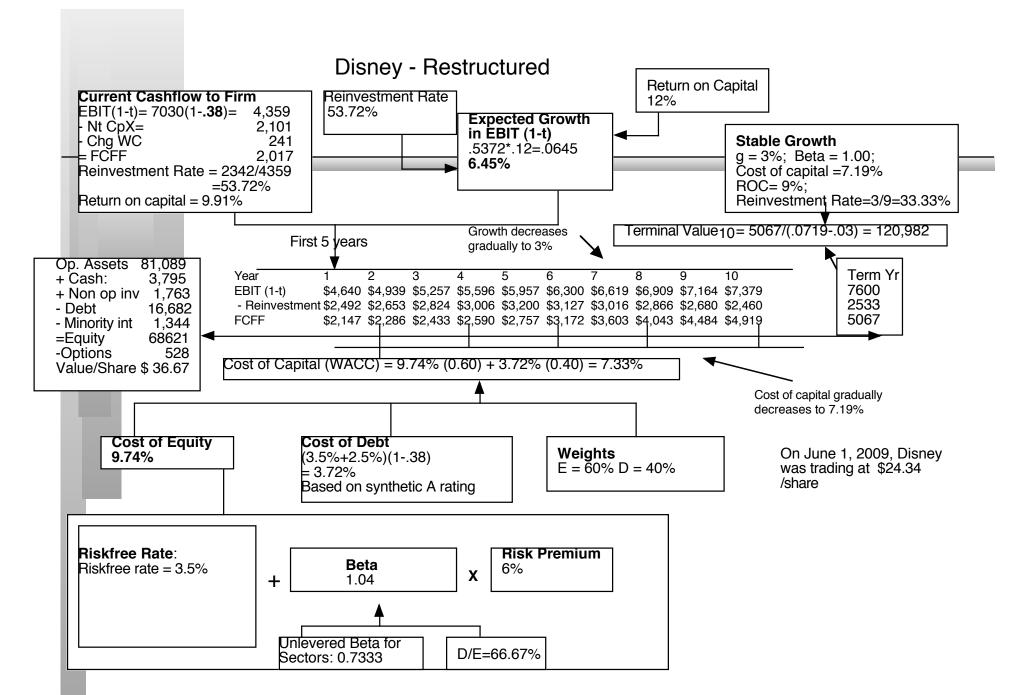
Aswath Damodaran



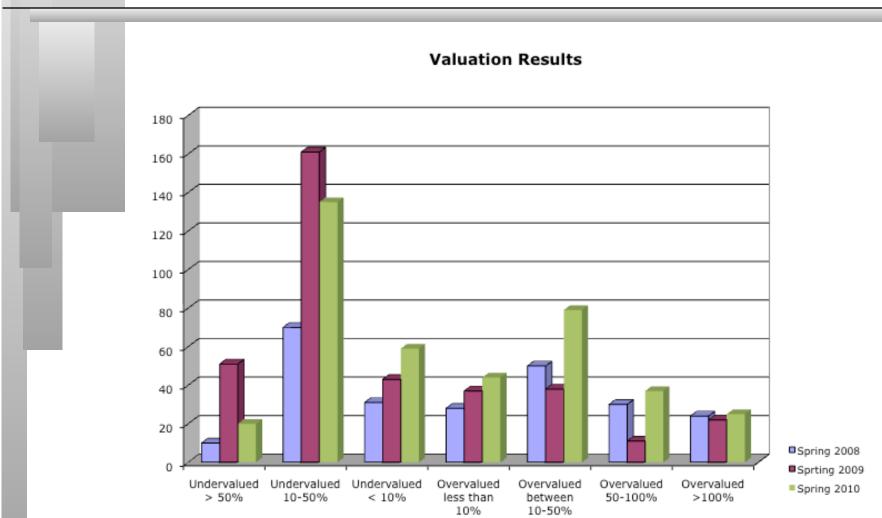


Ways of changing value...





Value versus Price



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

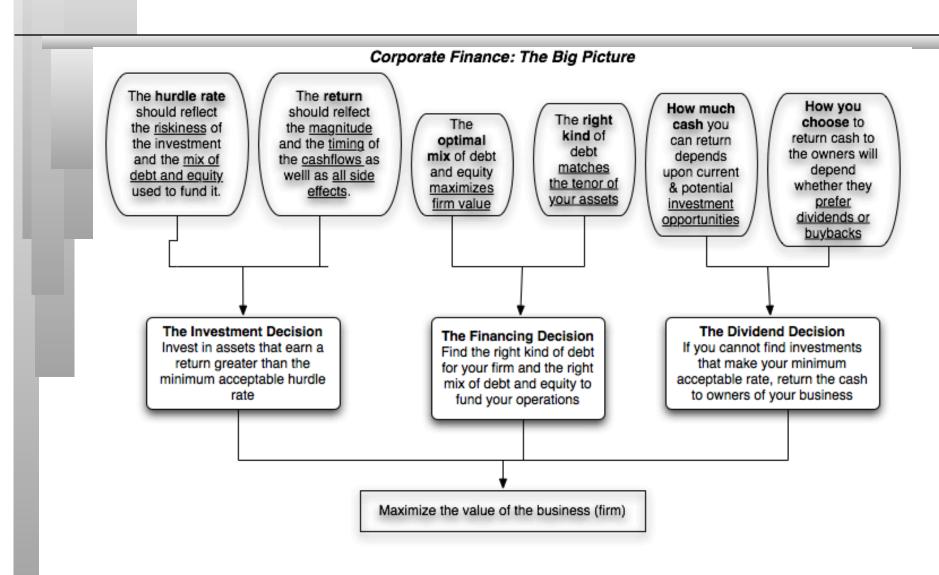
Most undervalued stocks!!

	Value/share		Price/Share	Price/Value	
Netflix	\$	11.77	\$ 103.17	876.55%	
Panera		11.95	78.01	652.80%	
SunPower Corpor	\$	3.58	\$ 18.07	504.75%	
HMA	\$	2.27	\$ 9.32	410.57%	
Sttarbucks	\$	6.37	\$ 25.98	407.85%	
Starbucks		6.58	25.98	394.83%	
Washington Post	\$	121.10	\$ 443.07	365.87%	
Amazon	\$	39.65	\$ 137.10	345.78%	
Willatmette Valley		1.18	3.63	307.63%	
Dr. Reddys		INR 403.97	INR 1,223.40	302.84%	
J. Crew	\$	15.78	\$ 47.48	300.89%	
Amazon		\$49.37	\$143.63	290.93%	
Willamette Valley	\$	1.27	\$ 3.63	285.83%	
Cablevision	\$	10.40	\$ 27.44	263.85%	

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

	Current Debt ratio	Optimal Debt Ratio	Dividends	FCFE	Value/share	Price/Share
Exxon Mobil	4.96%	40.00%	34,711	68,549	\$76.0	1 \$67
Frisch Restaurants	28.88%	40.00%	0.91442		\$25.72	
Apple	1.00%	20.00%	(7946	\$295.00	\$26
Amgen	15.63%	30.00%	4430	6786	\$65.10	\$5
Hansen's	0.40%	30.00%	86.2	208.83	\$50.2	1 \$44
Boston Beer Company	1.19%	20.00%	\$9.26	\$9.44	65.02	5
MDR	1.27%	50.00%	÷•••	94.81	\$31.6	
Google	0.97%	30.00%	(120.83	\$602.70	\$52
AcCormick	17.62%	40.00%	\$207		\$4	
Apple	0.66%	20.00%	÷==•	\$1,163	\$301.9	
Sysco	13.28%	50.00%	\$981.32		\$36.5	
Jame Stop	25.50%	40.00%	φ,στισ.	594	\$29.30	\$2
General Mills	20.53%	50.00%	1500	7200	84.02	
Nutrisystem	1.48%	30.00%	\$21	\$28.00	\$22.98	
Best Buy	30.42%	50.00%	\$1.025.17		\$54.13	\$4
Apple	0.00%	30.00%	\$1,025.11	2228.38	\$312.90	
rum! Brands	25.87%	40.00%	273		\$46.13	\$3
Vetflix	5.20%	20.00%	2/	98.8	\$74.90	
Pepsi	7.60%	40.00%	2739			\$6
Research In Motion	0.45%	30.00%	1200	1818.772		
Tim Hortons	14.69%	40.00%	\$207.27	\$215.70	\$44.54	1 \$3
Viacom	30.00%	60.00%	1133.33	1432.67		
IJ Heinz Co.	28.08%	40.00%	470			\$4 54
Archer Daniels Midland	33.00%	50.00%	447			
Iormel	6.79%	50.00%	139.5		\$58.62	
Aicrosoft	2.92%	40.00%	13821	19350	\$42.30	
ConAgra Foods	27.00%	40.00%	\$702.00	\$1,045.60	\$37.6	\$2
loyota	48.74%	60.00%	3449.00%	1012	\$55.60	
Gamestop	23.48%	50.00%	(149.4	\$37.5	\$ \$2
Chevron	5.71%	20.00%	5032		\$131.34	1 \$8
First Solar	2.40%	20.00%	(847	\$216.7	\$13
Magna International	16.24%	50.00%	125		\$88.2	5 \$5
Ross Stores	20.36%	50.00%	\$269.73	\$283	\$92.9	1 \$5
Sysco Corp.	7.47%	20.00%	658		\$52.79	
Dreamworks	0.72%	20.00%	(\$66.8	7 \$3
Google	1.16%	20.00%	(1520.1	\$897.0	
Google	1.16%	20.00%	(1520.1	\$897.0	
Cardinal Health	23.36%	60.00%	200.4	466.5	\$61.0	
Apple Inc.	0.66%	40.00%	\$	\$19,327.40	\$464.5	1 \$26
ConAgra Foods	27.00%	40.00%	\$702.00		\$44.4	
3T Solar	0.00%	40.00%	(107.21	\$11.0	
First Solar	1.36%	30.00%	(152.99	\$258.00	
Dreamworks	3.67%	20.00%	(264.9	79.9	
General Mills	22.84%	50.00%	435.0	1086	\$155.4	
Coca Cola	8.47%	30.00%	\$4,993.00	\$10,163.60	\$151.1	5 \$5
Hansen's	0.01%	40.00%	(48.16	\$125.5	
3T Solar	0.00%	40.00%	(9.11		
Starbucks	16.72%	40.00%	\$365.71			
Starbucks	16.72%	40.00%	\$365.71	\$933.40	\$79.9	
3P	39.06%	90.00%	\$8,795		\$209.9	7 \$5
Trina Solar	29.00%	40.00%	(17.68	\$107.60	5

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 don't forget your CFEs...

1. This course was mentally challenging 1 2 3 4 No-brainer!	g/intellectually stimulating. 5 6	7 Brilliant insights!
2. This course was demanding of my tin 1 2 3 4 What work?	ne. 5 6	7 Haven't slept all semester.
3. This course provided me with tools a 1 2 3 4 5 Only in prison	nd information that I will find 6 7	d useful in the future. Completely relevant
4. Overall evaluation of the course 1 2 3 4 Horrible! (I want my money back)	5 6	7 Stupendous!
5. The instructor was organized and we 1 2 3 4 Had trouble finding classroom	ell prepared for class. 5 6	7 Scarily efficient!
6. The instructor communicated his/her 1 2 3 4 Garbled gobbledygook!	r ideas and material well. 5 6	7 Should have own TV show
7. The instructor was enthusiastic abou 1 2 3 4 Dead man talking!	ut his/her subject matter. 5 6	7 I am a convert
8. Overall evaluation of the instructor 1 2 3 4 Dog!	5 6	7 Star!