

Summarizing ‘Business Analysis & Valuation’ ... or “Damodaran on Valuation”

... 😊

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Basic FCF Model

Value of Firm

- Use CF of Firm and WACC as discounting rate

Value of Equity

- Use CF to Firm's Equity and Cost of Equity as discounting rate

Modifications for ...

Firms in trouble

- Estimate cash flow until they turn positive

Cyclical Firms

- FCF are usually smoothed out

Firms with unutilized assets

- Get the value of these assets externally and add

FCF Model ... Complications

- Firms with patents and product options
 - Get the value of these externally and add **[or]** better, real options pricing model
- Firms in the process of restructuring
 - Adjust CF to reflect business restructuring and discount rate to reflect financial restructuring
- Firms involved in acquisitions
 - (a) incorporate in FCF's; and (b) incorporate in risk
- Private firms:
 - Take riskiness of comparable firms that are publicly traded **[or]** relate the measure of risk to accounting variables

Why Estimates Usually Go Wrong?

Sources of uncertainty (by Aswath Damodaran)

- Our estimates of value can be wrong for a number of reasons (divided into three groups):
 1. Estimation uncertainty: Errors while converting raw information into inputs and use these inputs in models (common in valuing young technology company)
 2. Firm-specific uncertainty: The path that we envision for the firm can prove to be hopelessly wrong. (common in situations of information asymmetry for us vis-à-vis market participants)
 3. Macroeconomic uncertainty: Macroeconomic environment can change in unpredictable ways (common in mature cyclical or commodity company)

Good Responses to Uncertainty

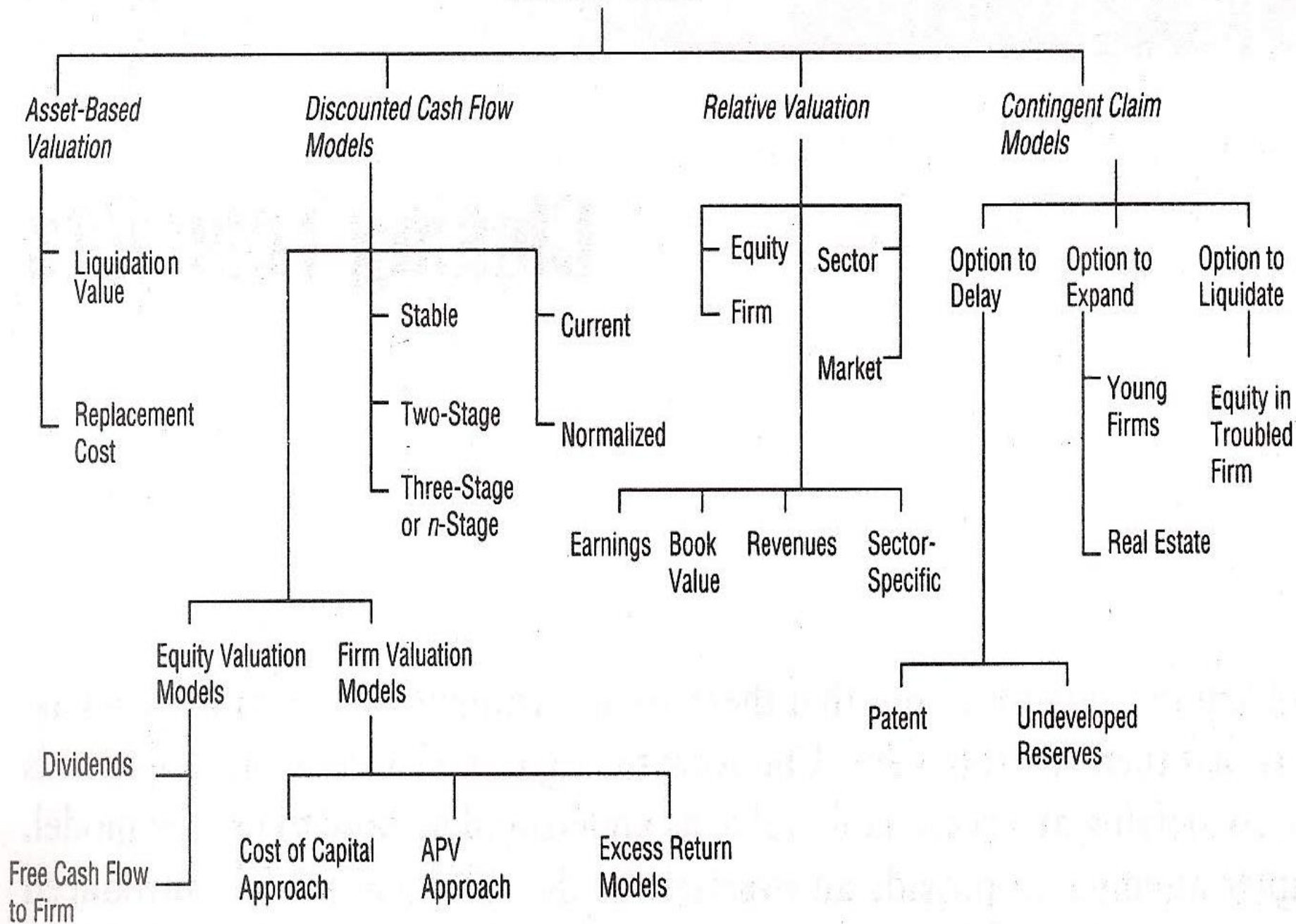
Healthy responses to uncertainty would include:

- Better valuation models
- Valuation ranges
- Probabilistic statements
- The principle of parsimony helps

Unhealthy responses to uncertainty would include:

- Passing the buck
- Giving up on fundamentals (and going for day dreaming or technical analysis)

Valuation Models



Mature businesses
Separable and marketable assets

Growth businesses
Linked and nonmarketable assets

Liquidation and
replacement cost
valuation

Other valuation models

Cash flows currently or
expected in near future

Cash flows if a contingency
occurs

Assets that will never
generate cash flows

Discounted cash flow
or relative valuation
models

Option pricing models

Relative valuation models

Unique asset or business

Large number of similar assets that are priced

Discounted cash flow
or option pricing
models

Relative valuation models

Short time horizon

Long time horizon

Liquidation value

Relative valuation

Option pricing
models

Discounted cash flow
value



Markets are correct on average but make mistakes on individual assets

Asset markets and financial markets may diverge

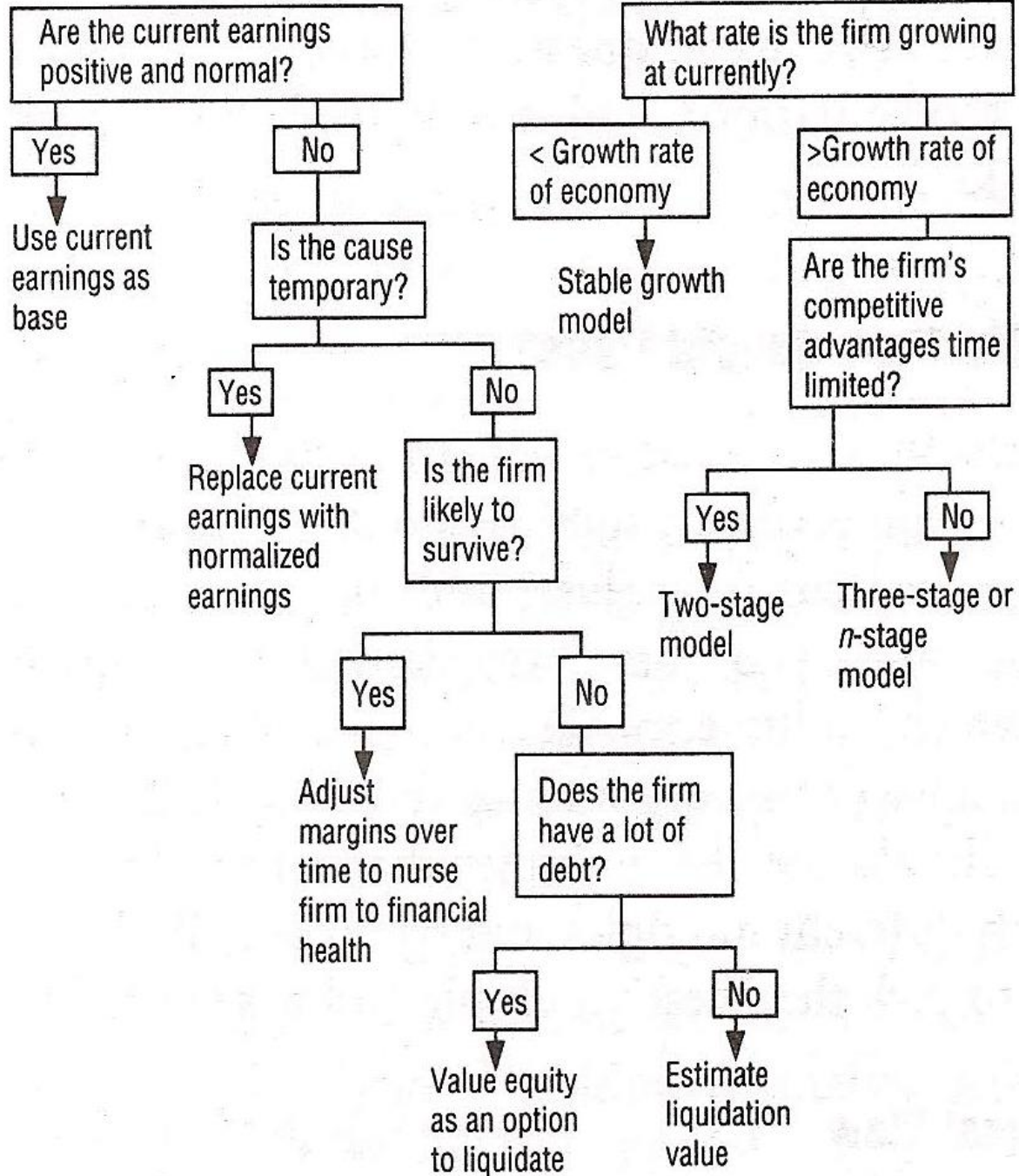
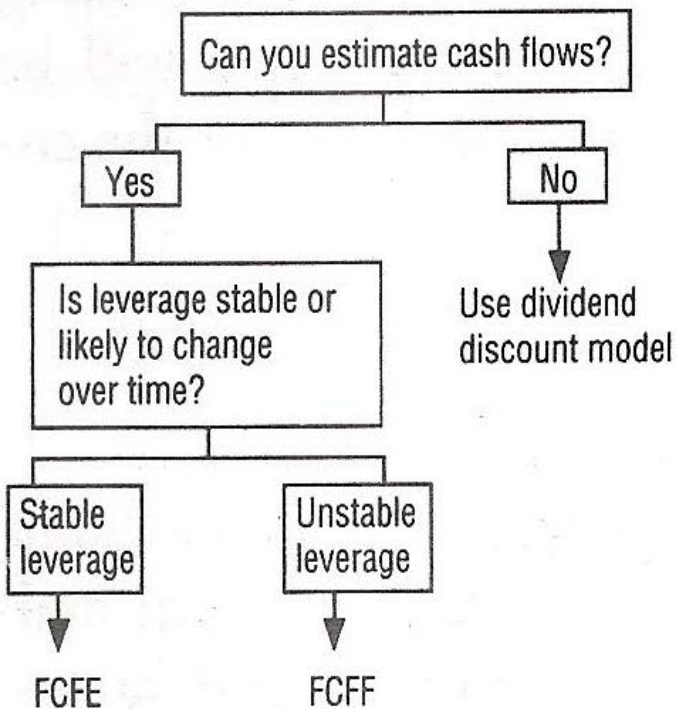
Markets make mistakes but correct them over time



Relative valuation

Liquidation value

Discounted cash flow value
Option pricing models



Sector	Multiple Used	Rationale/Comments
Cyclical manufacturing	P/E, relative P/E	Often with normalized earnings.
High tech, high growth	P/E to growth (PEG)	Big differences in growth across firms make it difficult to compare P/E ratios.
High growth/negative earnings	Price to sales, enterprise value to sales	Assume future margins will be positive.
Infrastructure	EV/EBITDA	Firms in sector have losses in early years, and reported earnings can vary depending on depreciation method.
Real Estate	Price to cash flow	Restrictions on investment policy and large depreciation charges make cash flows a better measure than equity earnings.
Financial services	Price to book value	Book value often marked to market.
Retailing	Price to sales Enterprise value to sales	If leverage is similar across firms. If leverage is different.

Limitations of Valuation

- Valuing alternate assets
- Valuing control
- While one can always state that ... in the long run market always prices assets based on their intrinsic value
 - ... finally, it is also a question of Demand and Supply
 - And hence there can be temporary asset mis-pricing due to liquidity issues
 - Also slightly longer time frame mis-pricing is created by a few market participants (using information asymmetry and large complexity) → typically you make things opaque) → RIL
 - Finally, Business Valuation is very successful over the long-run

Corporate Valuation

- How much of Corporate Valuation did we cover?
- Our focus was on connecting theoretical knowledge to practical aspects through ... Project, Illustrations, Examples, and Mini Cases.
- Many things are left ... such as, treating DTL, Infant Inds., etc.
- However, (within time and other constraints) we covered quite a range ... in terms of 'firm size', 'industry type', 'valuation model', 'risk-return' profiles, ...

