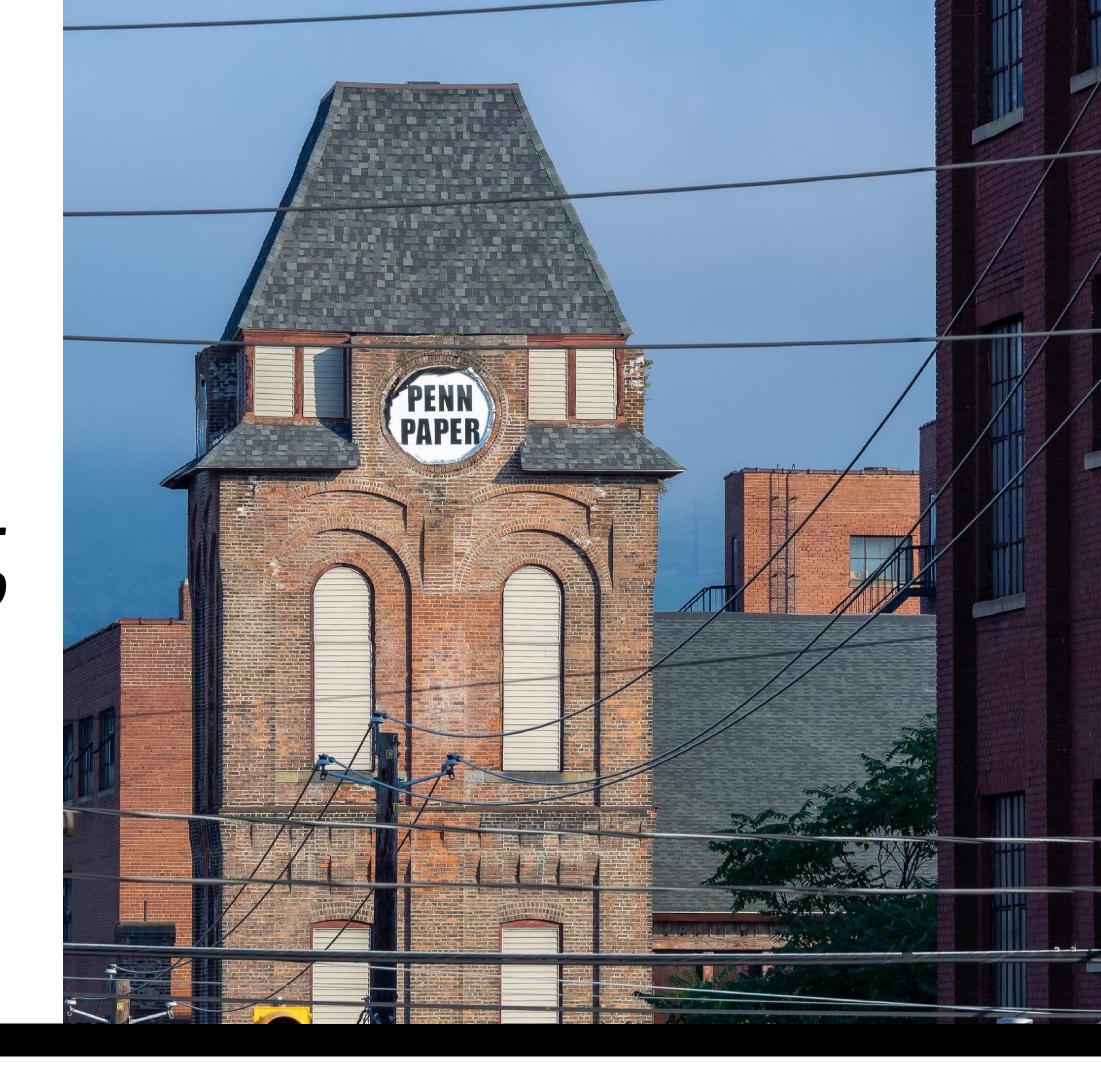
Funding & Impact Investing

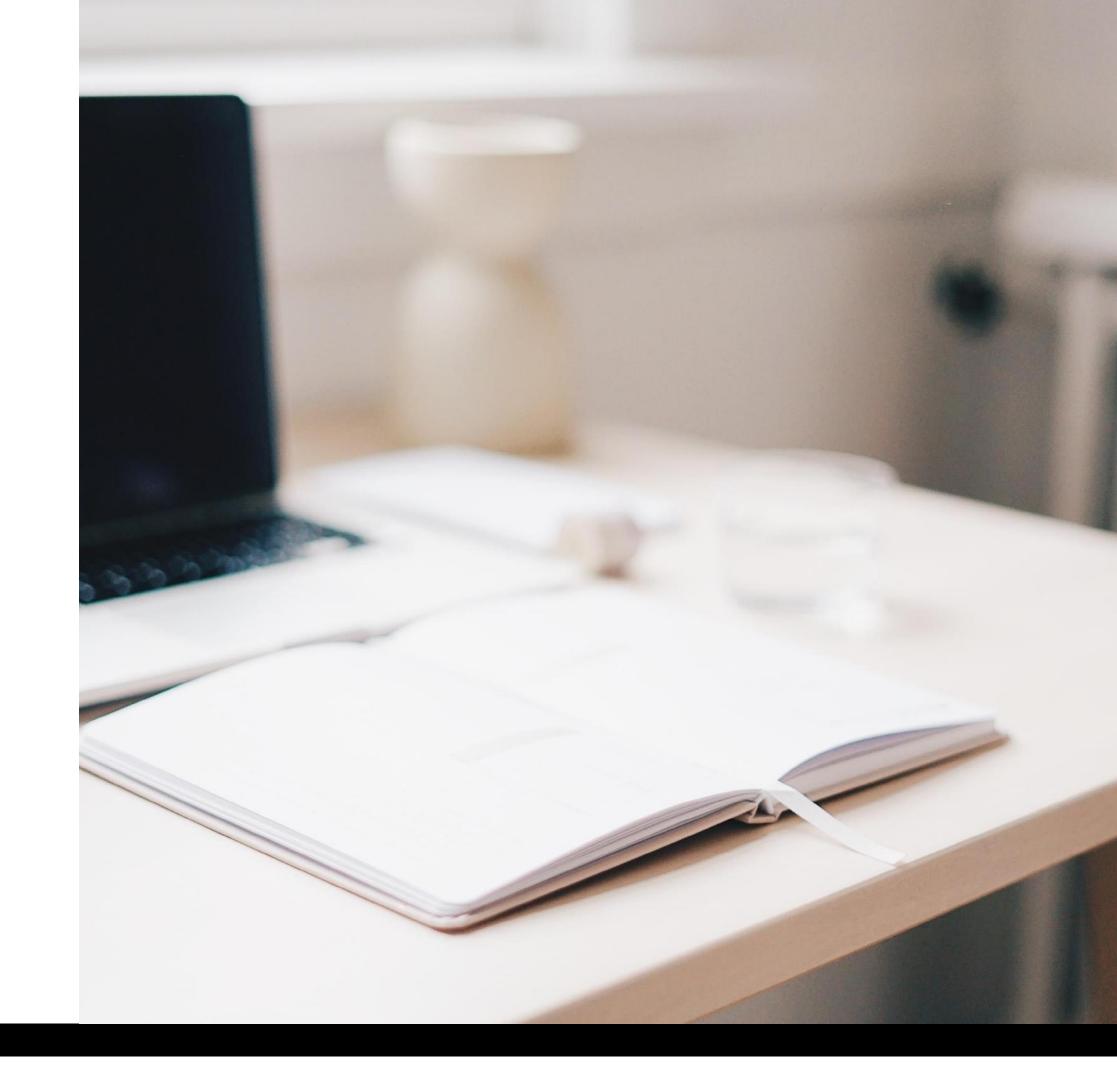
PRACTICAL CLASS #4
SPRING 2025



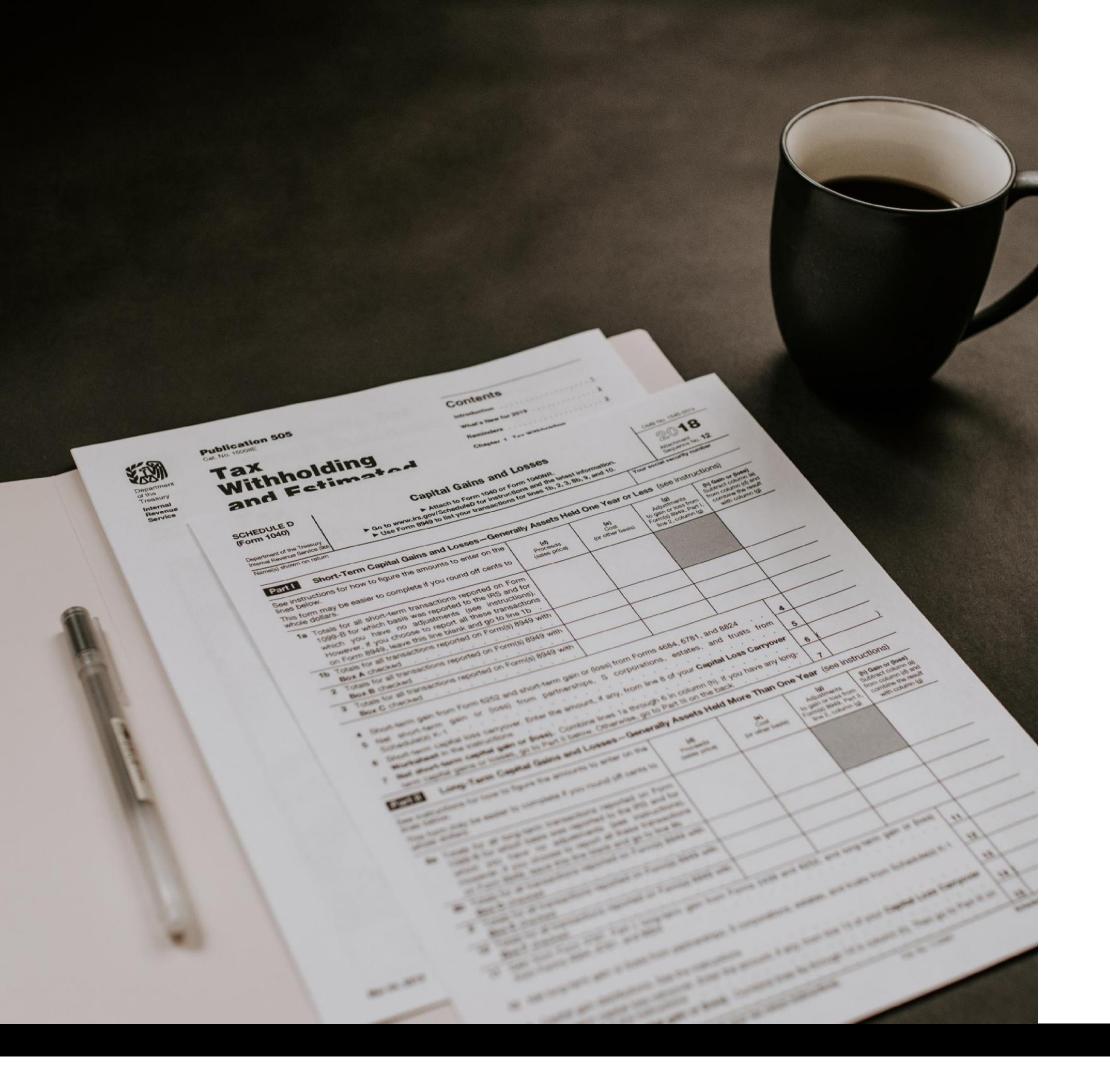


Agenda

- 1.Funding
- 2. Valuation
- 3.Exercises







Introduction to Funding

- Retained Earnings
- Debt
- Equity



Retained Earnings

- Refer to the profits a company keeps instead of distributing them as dividends.
- This method allows businesses to reinvest profits into operations without taking on debt or selling equity.
- It avoids double taxation. If the company distributes dividends, shareholders pay dividend taxes



Debt

- When a company raises capital by borrowing money, typically through loans with the promise to repay the principal plus interest over time.
- The company must repay the borrowed amount with interest, regardless of profitability.
- Debt funding does not dilute ownership or control.
- One key advantage of debt funding is tax reduction through a concept called the interest tax shield.
 Interest paid on debt is considered a business expense and can be deducted from taxable income



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 $Tax Shield = Debt \times Interest Rate \times Tax Rate$

Interest Tax Shield Example

```
EBIT= $1 million
Tax corporate rate = 30%

Without Debt:
Interest = 0$
EBT = $1 million
Taxes = 300 000$
Net income = 700 000$

With Debt
Suppose the company pays 200 000$ in interest expenses
Interest = 200 000$
EBT = 800 000$
Taxes = 240 000$
Net Income = 560 000$

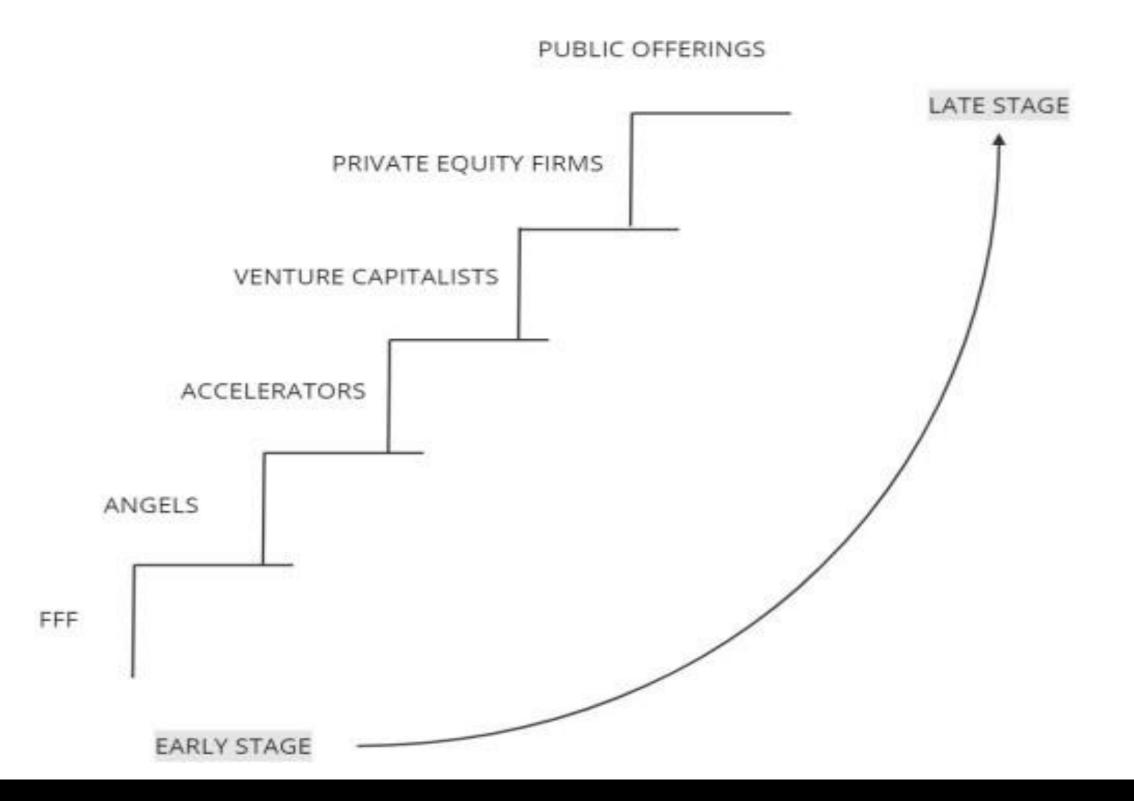
Tax Savings = 300 000 - 240 000 = 60 000$
```

Borrowing makes sense If the business generates a higher return on investment (ROI) than the cost of debt (interest rate),



Equity

- Refers to raising capital by selling ownership (equity) in a company, typically in the form of shares
- There is no need to repay investors, but they expect returns through dividends or stock appreciation
- Investors may take an active role in decision-making





Difference between PE and VC

Private Equity

Venture Capital

Type of Asset

Generally mature established companies

Early stage of development, startups

Risk

Low risk

High risk

Control

Control always present in true buyouts

Minority stakes are the norm

Valuation

Large Enterprise Value

Small enterprise value

Area of expertise

Can invest in any area

Areas of expertise are usually technology, software or life sciences

Investment Horizon

Short Run

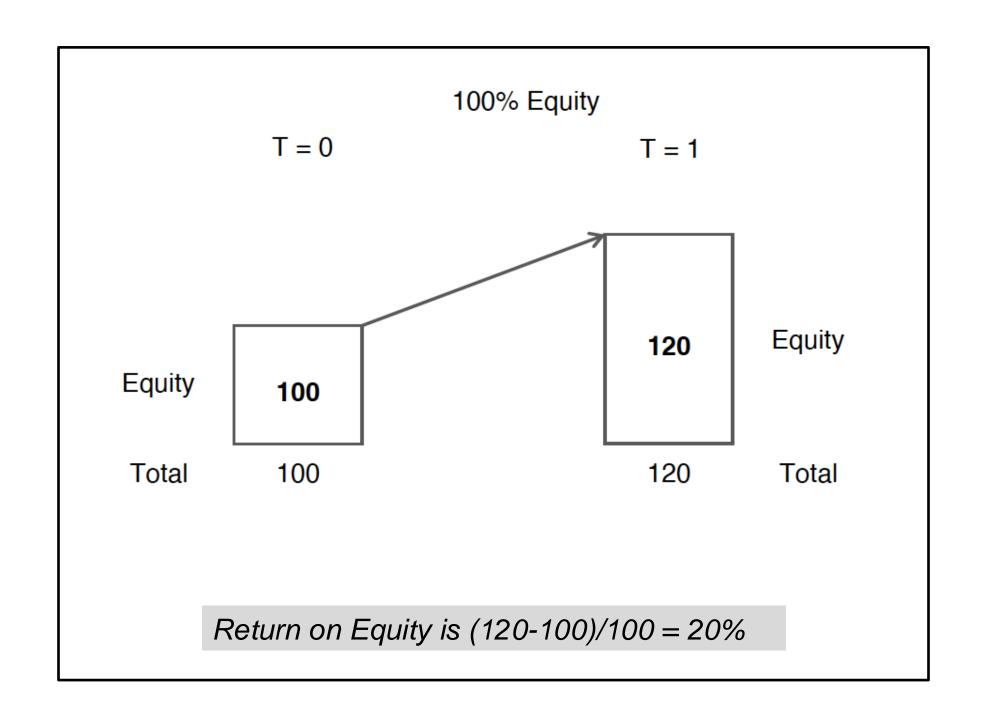
Long Run

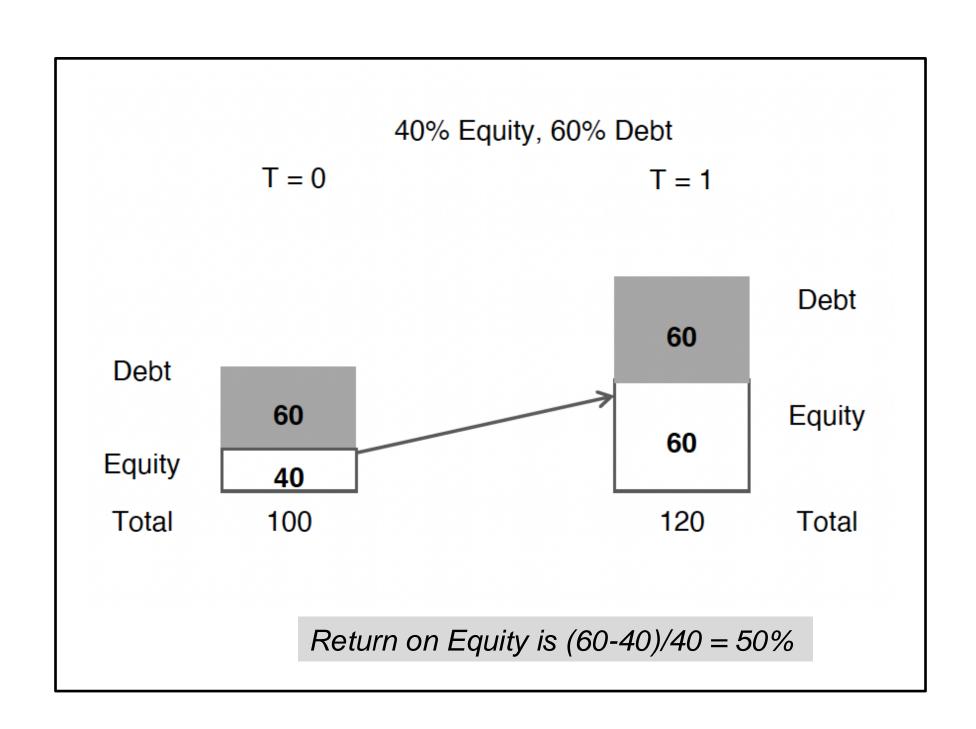


Would you rather use debt or equity?



Would you rather use debt or equity?







Would you rather use debt or equity?

Downsides of using debt:

- Increase financial risk: If investments do not perform as expected, the investor still needs to repay the debt with interest, which can lead to financial distress.
- Higher Interest Costs: Borrowing money comes with interest payments, which reduce overall profits.
- Cash Flow Pressure: Debt obligations require regular payments, regardless of whether the investment generates income. This can create liquidity issues.
- Psychological Stress: Managing debt, especially in uncertain markets, can create anxiety and stress, affecting decision-making and personal well-being.
- In some situation you will need the approval of banks to take some decision while running your business



PRINCIPLES OF MANAGEMENT

Valuation

How to to perform a company's valuation?

- ✓ Market comparables
- ✓ Discounted cash flow (DCF)
- **✓ Multiples**



Balance Sheets for NetFlix.com, Inc.

	As of Dec	As of December 31,	
	1998	1999	
Assets			
Current assets			
Cash and cash equivalents	1,061	14,198	
Short-term investments	924 99404	6,322	
Prepaids and other current assets	<u>635</u>	720	
Total current assets	1,696	21,240	
Rental library, net	2,011	8,695	
Property and equipment, net	1,062	4,499	
Deposits and other assets	80	339	
Total assets	4,849	34,773	
Liabilities and Shareholders' Equity Current liabilities			
Notes payable	1,000	625	
Current portion of capital lease obligations	579	571	
Accounts payable	3,063	5,334	
Accrued liabilities	1,640	3,211	
Deferred revenue	118	47	
Total current liabilities	6,400	10,212	
Capital lease obligations	172	81	
Note payable	(- 6)	3,959	
Total liabilities	6,572	14,982	
Mandatorily redeemable conv. pref stock Shareholders equity (deficit):	6,321	51,819	
Convertible preferred stock	4	4	
Common stock	3	7	
Additional paid-in capital	8,100	16,08	
Deferred stock-based compensation	(4,711)	(6,841)	
Accumulated deficit	(11,440)	(41,285)	
Total shareholders' equity (deficit)	(8,044)	(32,028)	
Total liabilities and shareholders' equity (deficit)	4.849	34,773	

Multiples

It is a method used to estimate the value of a company by applying a financial ratio (or multiple) to a specific financial metric, such as revenue, EBITDA, or net income. The multiple comes from **general industry benchmarks**, not specific companies, and can be found in data bases like Bloomberg.

1. Step

Select an appropriate multiple, example:

$$EV/EBITDA = rac{ ext{Enterprise Value (EV)}}{ ext{EBITDA}}$$

$$EV/Revenue = rac{ ext{Enterprise Value (EV)}}{ ext{Revenue}}$$

2. Step

Determine the company's financial metric and industry multiple

3. Step

Apply the industry multiple by Multiplying the company's financial metric by the industry standard multiple.



Multiples Calculation Example

Information from Company X:

EBITDA: \$100 million **Net Income:** \$50 million

Industry EV/EBITDA = 8

Enterprise Value (EV) = EBITDA × EV/EBITDA= \$100M × 8 = \$800M



Market Comparable

This method values a company by comparing it to publicly traded peers using financial ratios (multiples). It uses average of real-world companies' multiples instead of fixed industry standards multiples

1. Step

Identify similar companies

2. Step

Collect the multiples of the similar companies and you may take the average of these multiples

3. Step

Apply this multiples to the target company to determine the valuation



Market Comparable

Company	Market Cap (\$M)	Revenue (\$M)	EBITDA (\$M)	Net Income (\$M)	P/E	EV/EBITD A
А	1,200	600	120	60	20	10
В	1,500	750	150	75	18	9
С	1,100	550	110	55	22	11
Avg.	-	-	-	-	20	10

Compare **Company X** to three similar companies (A, B, and C) and take their average multiples:

Estimated Enterprise Value = EBITDA × EV/EBITDA= \$100M × 10 = \$1,000M

Now, applying the average multiples to **Company X**:



Discounted Cash Flow (DCF)

It is a method used to estimate the value of a company based on its expected future cash flows. It calculates the present value of those future cash flows using a discount rate

The free cash flow is the cash a company generates after considering the cash outflows to support its operations and maintain its capital assets

This method is based on the idea that money today is worth more than money in the future due to inflation and risk

1. Step

Determine Free Cash Flow for the next years Chose the discount rate for the money

2. Step

Calculate the terminal value. This is the value of a business beyond the period the cash flows can be estimated

3. Step

Discount the future cash flow and terminal value to present value having in consideration the discounted rate of money and sum this values.



Discounted Cash Flow (DCF)

Example:

Company X's Free Cash Flow (FCF):

•Year 1: \$50M

•Year 2: \$55M

•Year 3: \$60M

Discount Rate (WACC): 10%

Terminal Value: 600

Year	Free Cash Flow (FCF)	Discount Formula	Present Value (PV)
1	\$50M	50/(1.1)	\$45.5M
2	\$55M	55/(1.1^2)	\$45.5M
3	\$60M	55/(1.1^3)	\$45.1M
Terminal Value			\$600M
Total			\$736,1M

