

Agenda	
 Purpose and main features 	
• Trading	
 Evaluation of stocks 	
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PURPOSE AND FEATURES

- Stocks represent an ownership share in a company
- Usually, no maturity date
- Usually, provide voting rights
- Lowest priority in case of default (residual claim)
- Returns are based on:
 - Dividends: periodical uncertain payments over company's net profit
 - Capital gains/losses: changes in prices+
- So, secondary markets are important

PURPOSE AND FEATURES

- Main categories:
 - Common stock:
 - typical form, with several variations
 - dividends, voting rights and subordination to creditors
 - Preferred stock:
 - fixed predetermined dividend
 - very limited voting rights
 - priority over common stock
 - Tracking stock: performing as a division/project rather than a whole firm

Several features strongly depend on country-specific regulation

PURPOSE AND FEATURES Stock "styles": Income stocks: More frequent and steady dividend payment Focus on flows, rather than on capital gains Value stocks: "underpriced" stocks compared to peers Focus on future opportunities, management, ... rather than financials Growth stocks: Rapidly increasing profits reinvested rather than distributed Focus on (future potential) capital gains Also, volumes (large, mid, small cap stocks)

PURPOSE AND FEATURES	
Markets: • Exchanges: • traditional auctions plus continuous trading • usually intermediated by authorised brokers • external+internal regulation (f.i. Borsa Italiana SpA)	
 often organised in submarkets/segments (f.i. S/M/L cap.) multiple listing is allowed frequently privately owned and for-profit OTC: 	
 trading mostly electronic through dealers that provide their own inventory of stocks and bid/ask prices (f.i. NASDAQ) IT allowed increasing competition (cont.) 	
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PURPOSE AND FEATURES

Markets (cont.):

• Multilateral trading facilities (MTF) and electronic communication networks (ECN)

- direct link between brokers/traders
- transparent, less expensive, faster and 24/7
- mostly for more liquid stocks
- Recently, diffusion of Exchange traded funds (ETFs):
 - Portfolio of specified securities
 - ETF's shares are listed and traded as stocks: price discovery
 - Passive management: lower costs and closer replication of benchmark
 - Limited entry minimums: allow easier diversification
 - Brokerage fees render ETFs more expensive than mutual funds

PURPOSE AND FEATURES • Control over participating operators and · Price set by buyers below its maximum • Information has the role to increase

Trading through auctions:

- transparency
- **potential:** the winning buyer should be the one taking the best advantage of the asset, otherwise would not offer the highest price (or strongly believing it)
- assets' values or reducing their risk (uncertainty)

https://www.youtube.com/watch?v=UoUnvVRYzzA





PURPOSE AND FEATURES

Continuous trading reduces valuation errors (that explain part of short-term volatility):

- Firm and environment change, affecting growth rates (small changes, through perpetuity, lead to wide price variations)
- Competition renders difficult to keep growing at high rates
- Consensus on discount (risk) factors is unlikely
- Estimating dividends is hard, as well as expressing unanimous future expectations









EVALUATION	
Price/earnings valuation method (P/E):	
 Difficult application of the dividend model led to simpler approaches based on "multiples", or company measures that allow direct comparisons across sectors/countries and bear market expectations 	
 P/E compares stock's price with company's earnings: 	
 greater values mean that market expects a rise in earnings 	
 or a lower level of uncertainty 	
 P/BV compares stock's price with accounting equity (total or tangible): 	
Relationship between historic and forward-looking measures	
 Strongly dependent on the accounting framework (GAAP, IFRS,) 	
 Firms in the same industry should have similar long-run ratios, therefore a stock is valued as the average industry's value times its earnings per share or book values 	
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			E	XAMPLE	S
The following Which stock	t is a list of Italia bears more risks	in stocks s given tl	, showing c his data?	urrent prices, ann	ual dividends and expo
	Stock		Price	Dividend	1y exp. price
	ENI		17.66	0.55	21.00
	Finmeccani	са	5.67	0.41	6.50
	Generali		16.88	0.20	18.00
	Luxottica		38.43	0.58	46.00
	Unicredit		5.635	0.00	6.50
ompute the re	quired return th	hrough t	he usual foi	rmula: P ₀	$= \frac{D_1}{1+k_e} + \frac{P_1}{1+k_e} \rightarrow k_e$
Stoc	k	k_e			
ENI		0.2	203		
Finm	eccanica	0.2	187		
Luxo	Luxottica 0.2		121		
Unic	redit	0.1	535		
Con	erali	0.0	782		

			ΕΧΑΝ	MPLES			
3. The follow expected	ving is a list of Italia return. What can b	n stocks, sho e said on the	owing current p expected grow	rices, the expected fu vth through the Gordo	ture dividend and on model?	d an estimated	
	Stock		Price	Dividend	k_e		
	MPS		0.2428	0.0245	5%		
	Campari		6.445	0.07	7%		
	ENEL		3.232	0.15	25%		
	Fondiaria-SAI		1.916	0.40	15%		
	Sal. Ferragamo		25.19	0.33	10%		
Compute the	e required return th	rough the u	sual formula:	$P_0 = \frac{D_1}{k_e - g} - $	$\Rightarrow g = k_e - \frac{D_1}{P_0}$		
St	ock	g					
ENI	EL	18.812%					
Sal.	. Ferragamo	8.412%					
Car	npari	6.224%					
MP	S	0.881%					
For	ndiaria-SAI	-0.658%					
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Considering (selected) sectors in t	the US (using	NYU-Damoda	aran 1/13) ,	which of the following do you expect:
 To have the highest and lov 	vest P/E			
 To have the highest and low 	vest growth ra	atio		
To have the highest and low	vest navout ra	tio		
to have the highest and lov	vest payout it			
	P/E	g	Payout	
Bank	19.74	9.28%	31.35%	
Financial services	22.63	12.97%	25.33%	
Life insurance	23.72	12.48%	24.23%	
Non-life insurance	48.98	10.32%	45.77%	
Investment Companies	25.04	NA	NA	
Public/Private Equity	7.88	17.10%	21.00%	
Reinsurance	45.24	11.82%	NA	
Securities Brokerage	15.1	10.48%	21.76%	
Thrift	43.27	10.34%	20.45%	
w would you expect the same rat	los for, say, fu	neral service	is and intern	et companies? Why?
	P/E	g	Payout	
Funeral Services	18.77	10.90%	49.83%	
Internet	150.13	23.17%	1.36%	