



Using Bonds Market Data for TP

What is Yield to Maturity (YTM)

YTM is the **total annualized return** you can expect if you:

- Buy a bond at its current market price
- Hold it until maturity and reinvest every coupon at the same yield
- Receive all coupon payments and principal on schedule

It is the return relative to the **current bond price** (today's price) not to the original issue price or face value.

YTM combines two sources of return:

- **Income:** the coupon payments you receive over time
- **Capital gain or loss:** the difference between what you paid (buying at a discount or premium) and what you receive at maturity

$$\text{YTM} = \frac{[\text{Coupon} + (\text{Face Value} - \text{Price}) / \text{Years to Maturity}]}{[(\text{Face Value} + \text{Price}) / 2]}$$

Why is YTM useful for TP?





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Every bond's YTM is set by supply and demand — it shows the return third parties require *today* to lend to that issuer.

YTM captures the market's collective view of:

- The issuer's risk => credit risk premium
- Term structure => time to maturity
- Currency
- Expected interest-rate direction, and
- Required compensation for time and uncertainty.

In short, **YTM is the market's price of financing** — a snapshot of the expected return at a given moment, wrapping **risk, time, and rates** into one number.

Why is YTM Better Than the Coupon or Current Yield?

Measure

What it tells you

What it misses

Coupon Rate

Fixed interest as % of face value

Ignores that bond price changes — if you pay more or less than face value, your actual return is different

Current Yield

Income relative to today's price

Ignores capital gain/loss when the bond matures

Determinants of YTM



Using Bonds Market Data for TP Determinants of YTM

