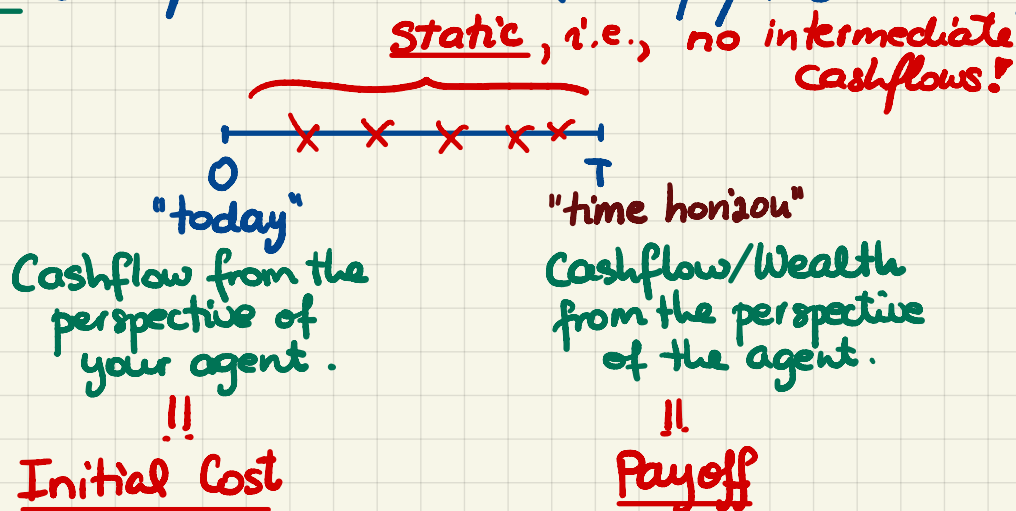


M339D: September 6th, 2023.

Static Portfolios.

Step #1. Decide who your protagonist is!

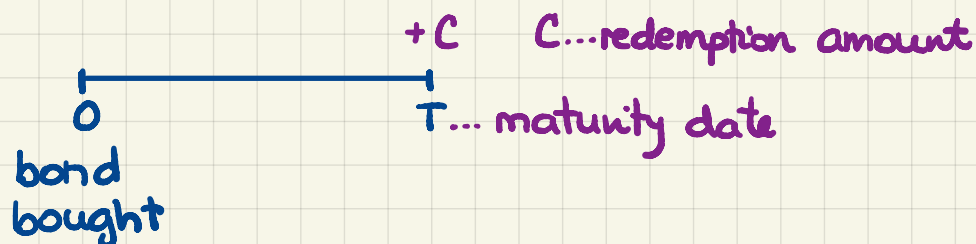
Step #2. Set up a time line ("on paper" or mentally)!



$$\text{Profit} := \text{Payoff} - FV_{0,T}(\text{Initial Cost})$$

- If Profit > 0, we call it a gain.
- If Profit < 0, we call it a loss.
- If Profit = 0, we say that we break even.

Example. [Investing in a zero-coupon bond]



(r.) continuously compounded, risk-free interest rate

Initial cost: Ce^{-rT}

Payoff: C