

Measures of Programmer productivity?

What is Cocomo?

Constructive Cost Model II

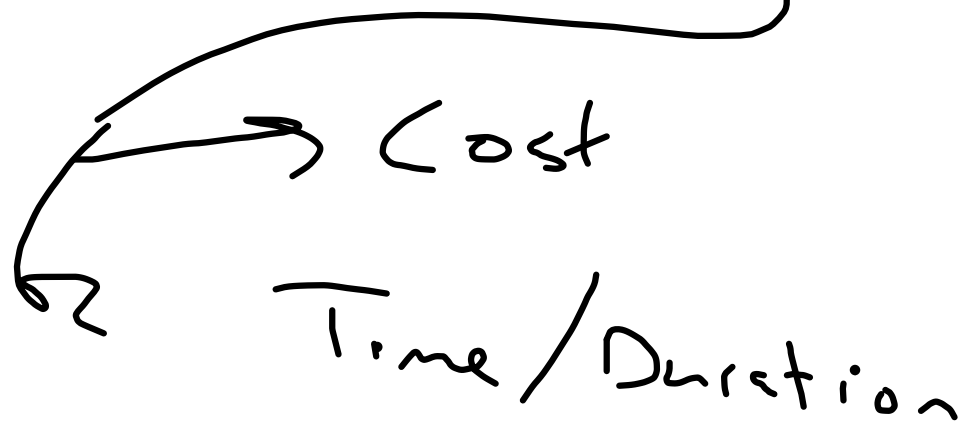
Assess → retention, reuse

improve

Prod. (↓) / PK<sub>n</sub>

Why?

Programme Productivity



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How much should your software cost?

$$\text{Price} = \text{Cost} + \text{Profit}$$

↑  
Mk.

# Your costs

Hot Pockets & Tolt  
(misc food & beverage)

Health Insurance

Taxes

Cost of Your Time (Opportunity costs)

HW & Networking & Electricity  
& Travel/AR Rent/mortgage

30 days to deliver

\$20/day

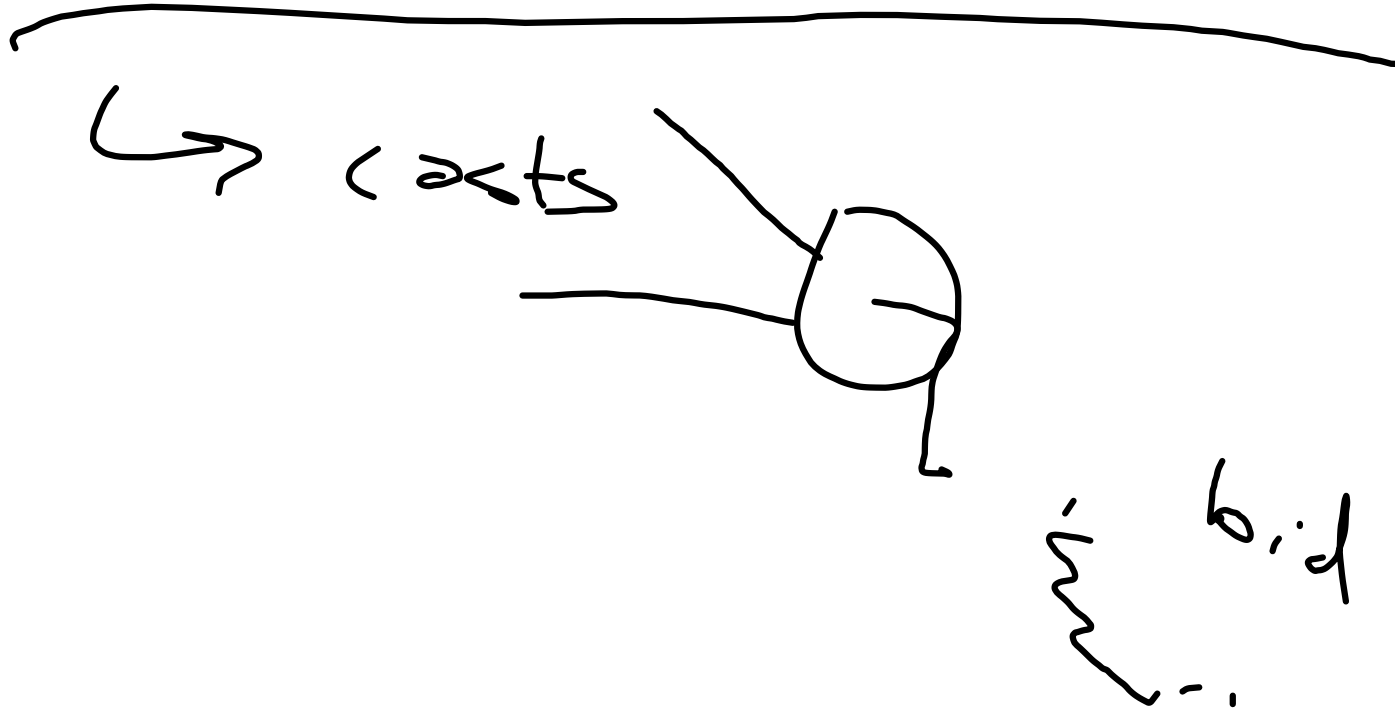
charge = \$600

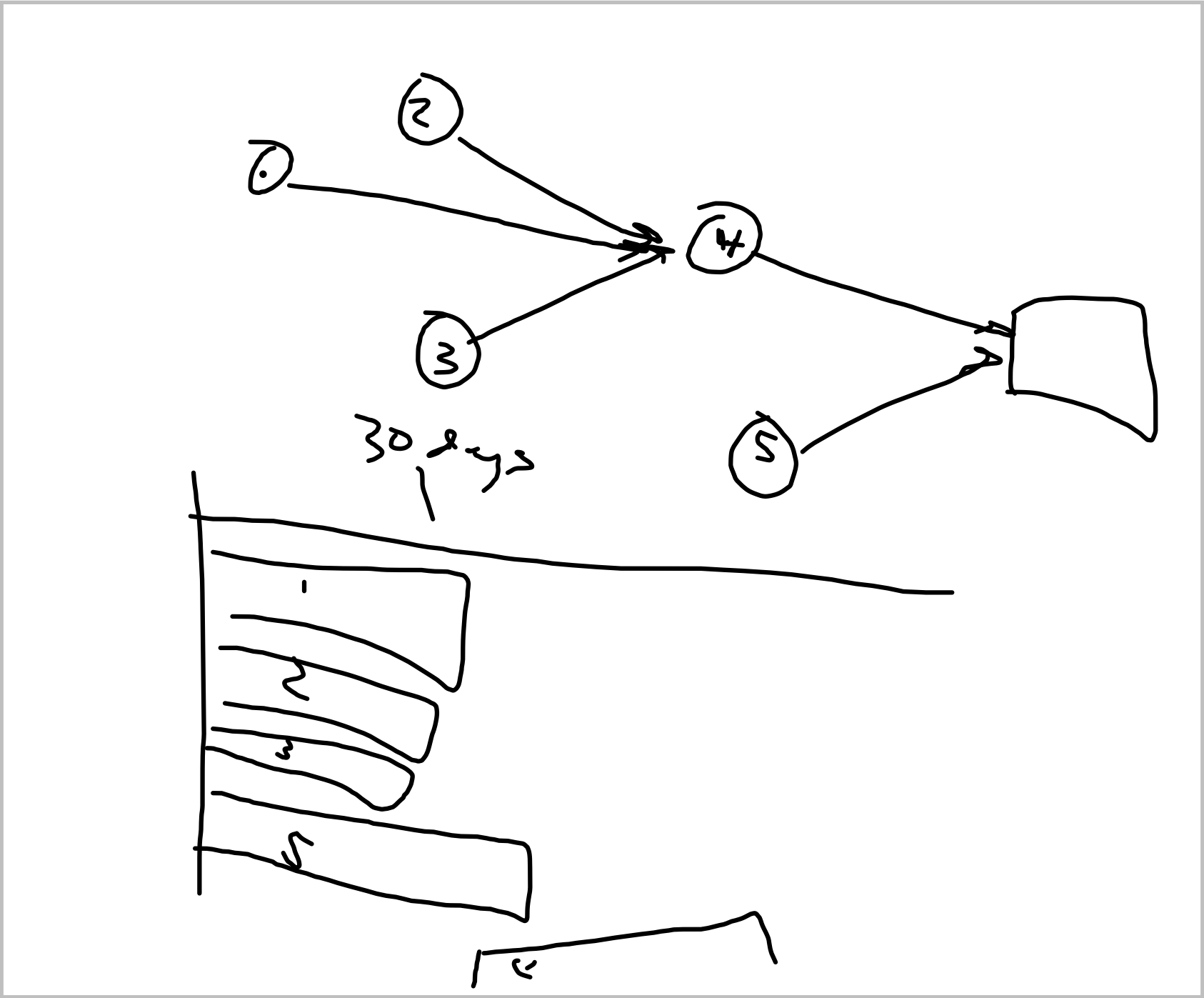
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If you work for a company

Same costs

You don't want to be  
on overhead!

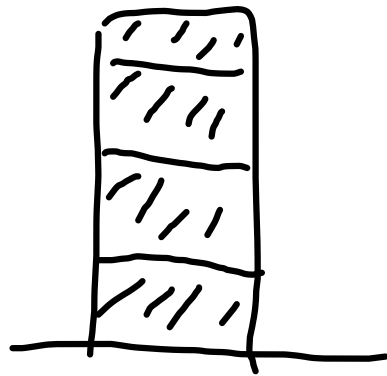




# ↳ Productivity Metrics

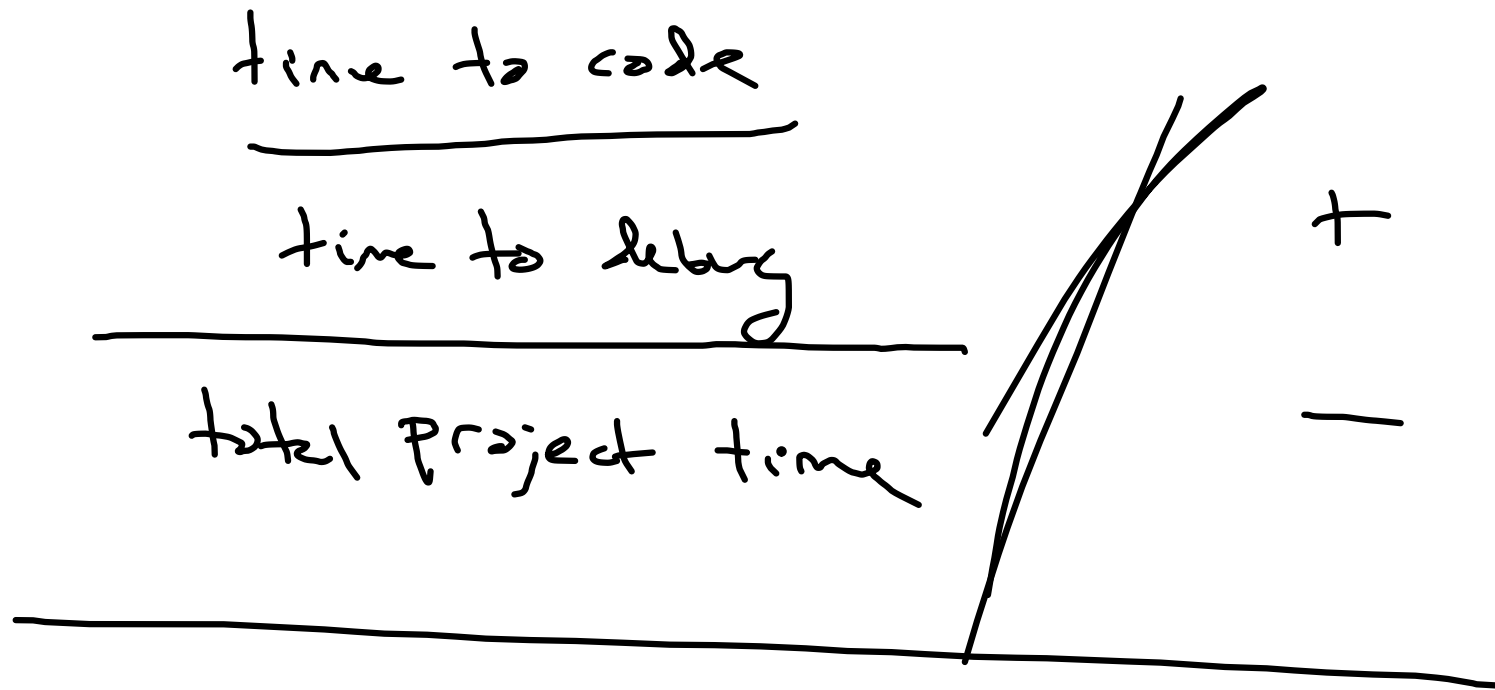
1. Amount of Time to get to Milestones  
(average .....

Includes all development activities, +



Amount of effort  
user stories / milestones

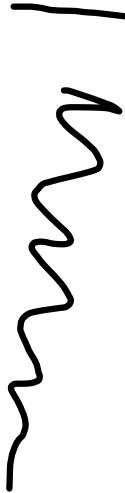
who sets  
the  
mix  
of  
product



LOC - lines of code

C/Java  
for  
i = 0;  
i < 10;  
i++

\*



Assembly  
add 0  
mov i, 10  
bne 14



15

10 ms

---

src



bytecode

10ms

---

bytecode



machine

code

10ms

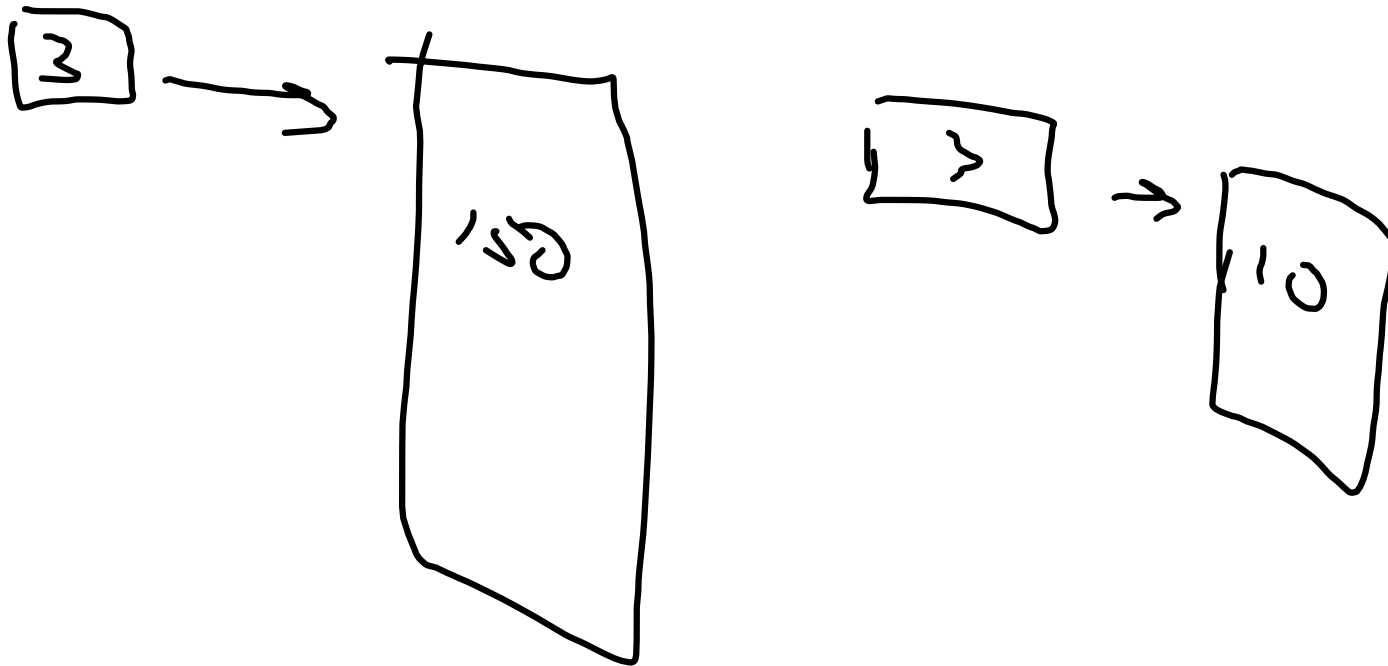
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optimize

machine

code

# Lines of machine code



Goals / Specs / Functionality

Productivity → Functional Points  
Object Points

FP → # inputs  
# outputs

- name
- phone #
- address

→ " mailing label

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Object Pts → # of screens  
# of reports