



Project Management Tools

Emilien

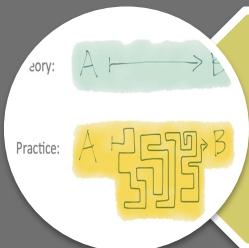


16/11/2015





Context



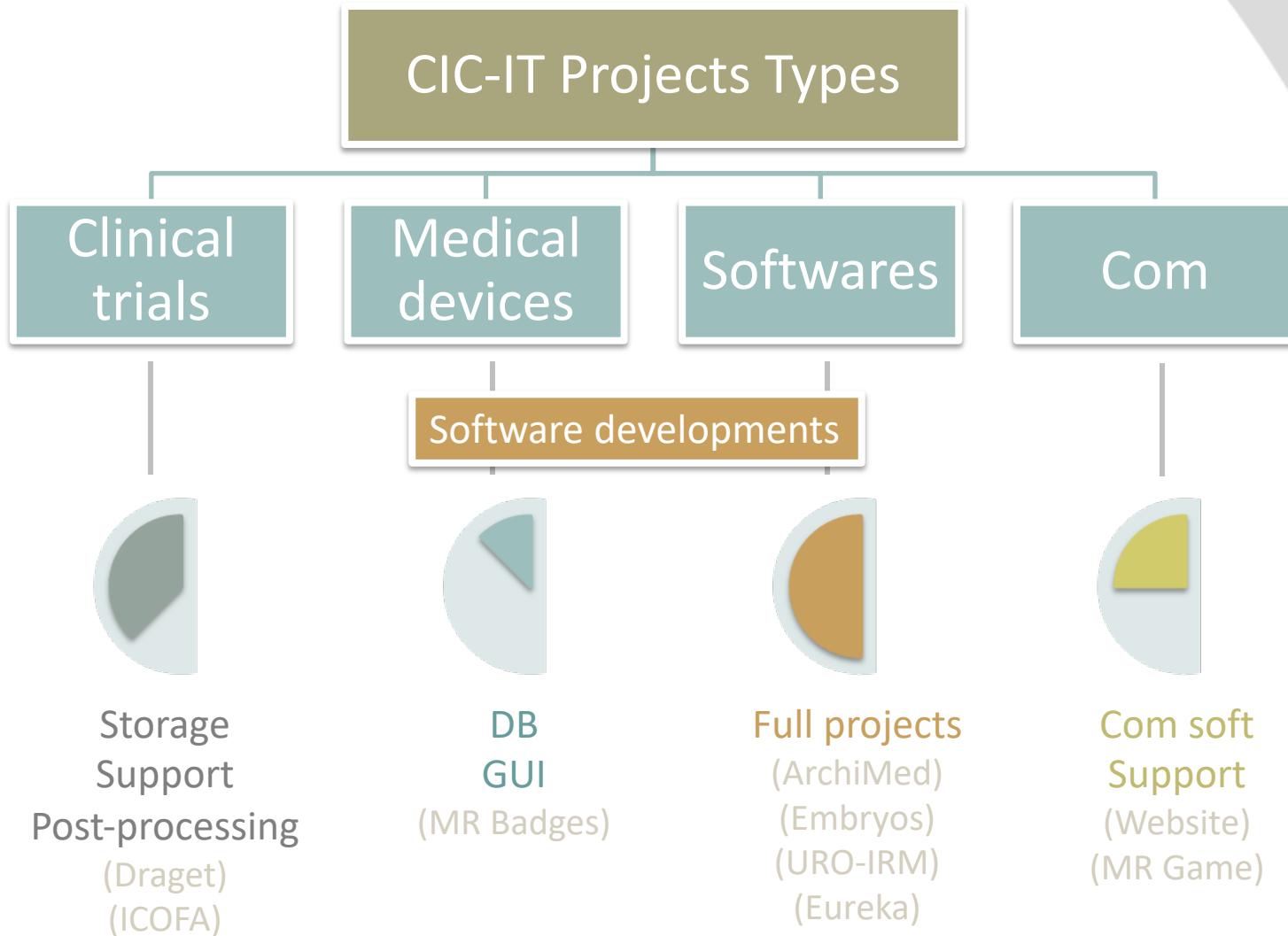
Theory vs Practice



GIT / Redmine



Context : Dev Team



Many punctual/shorts developments

- CIC-IT have its own project management tools



- But we need more specific tools – WHY ?

More Granularity / Details

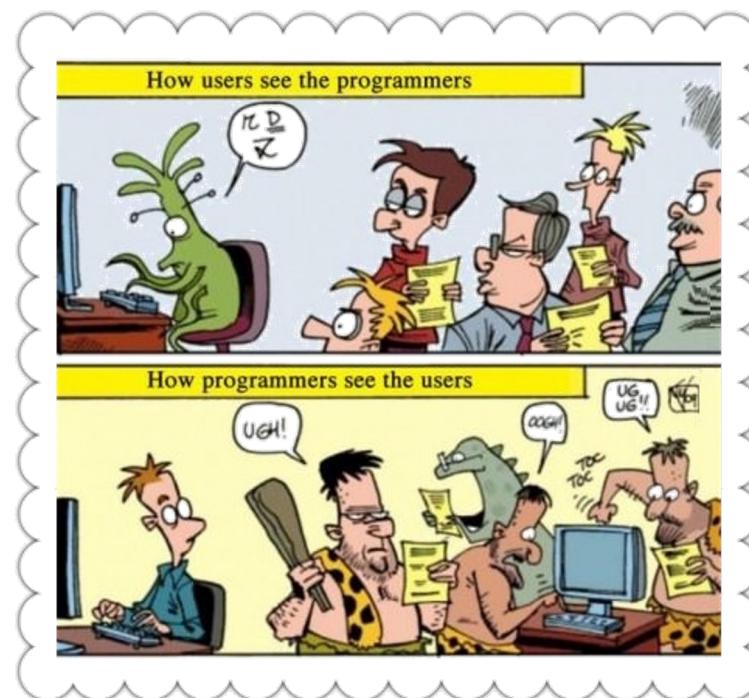
Specific code management

Sharing – Join effort

Accuracy of time estimation

010101

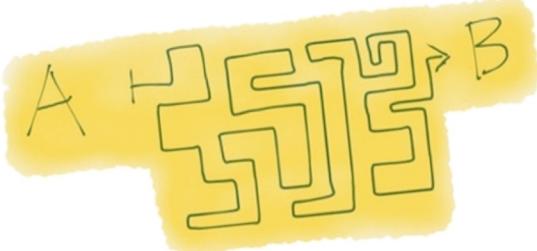
We don't understand common mortal



Theory:



Practice:

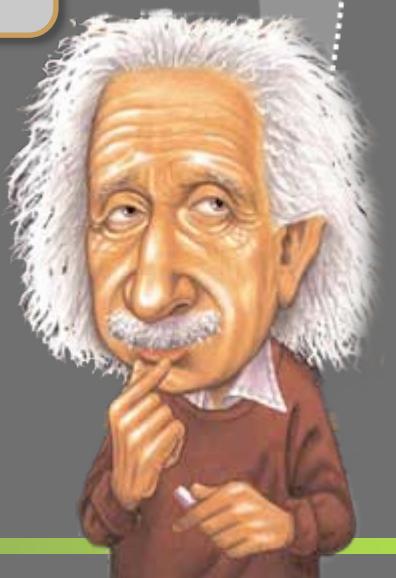


In theory, theory and practice are the same.

In practice, they are not.

Project Management

Theory VS Practice



○ The perfect project plan

1



Demand clearly exposed

2



Write full, explicit and complete specifications

3



Client read ALL documents & accept specs ONCE AND FOR ALL

4



Gantt is established considering every actors, time and resources

8



Software delivery

7



Tests Success

6



Validate Task

5



Coding task N



○ The perfect project plan

1



Demand clearly exposed

2



Write full, explicit and complete specifications

3



Client read ALL the documents & accept specs ONCE AND FOR ALL

4



Gantt is established considering every actors, time and resources

8



Software delivery

7



Tests Success

6



Validate Task

5



Coding task N



○ The perfect project plan

1



Tests Success

4



Gantt is established considering every actors, time and resources

5



Coding task N



○ The perfect project plan



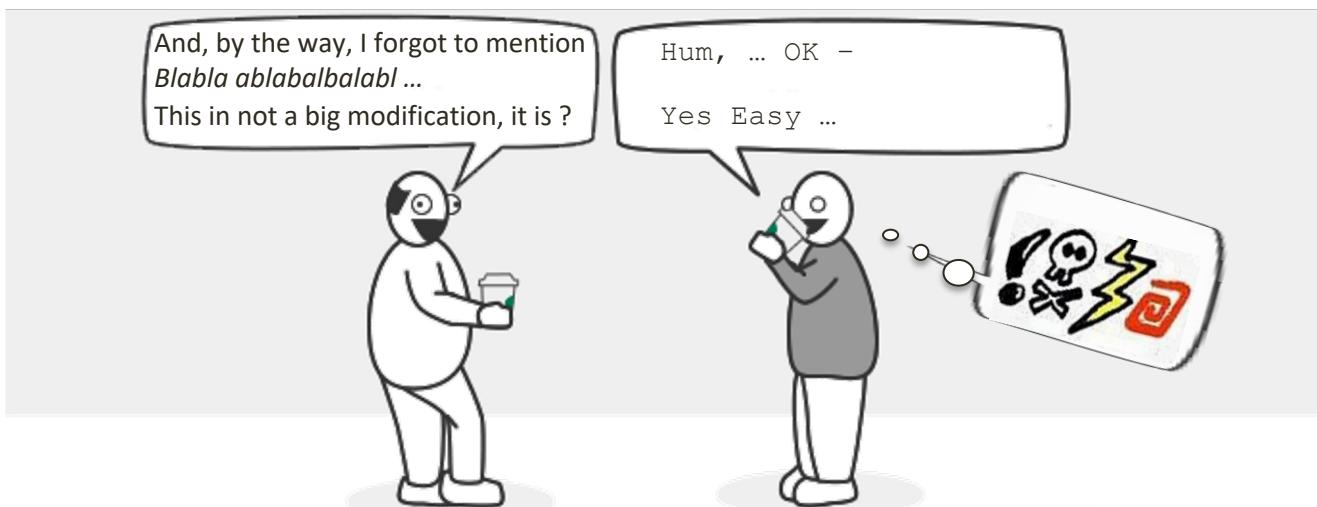
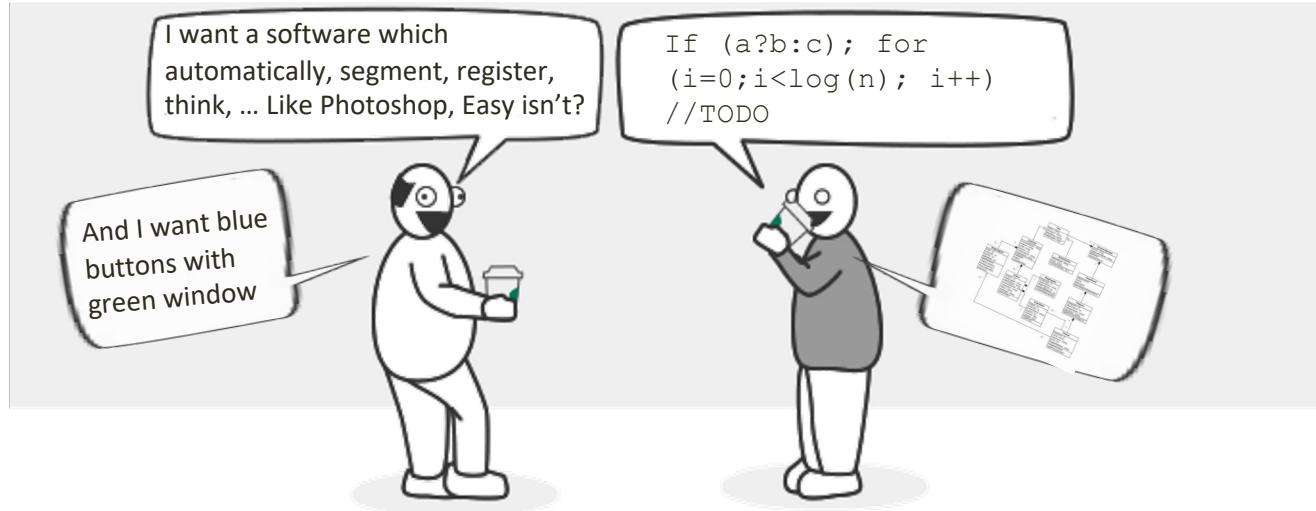
○ The perfect project plan



©TOC

care-bears.com

Client specification in reality



Very difficult to think about everything

Cross Disciplinary Com Issues

Last minute changes

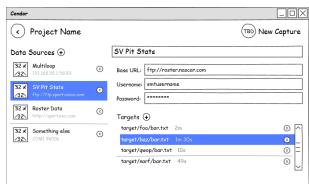
Specifications in reality



Project context
(don't care but filling doc)

Some technical stuff
Cool techno (have fun)
Good schemas

Some gui figures



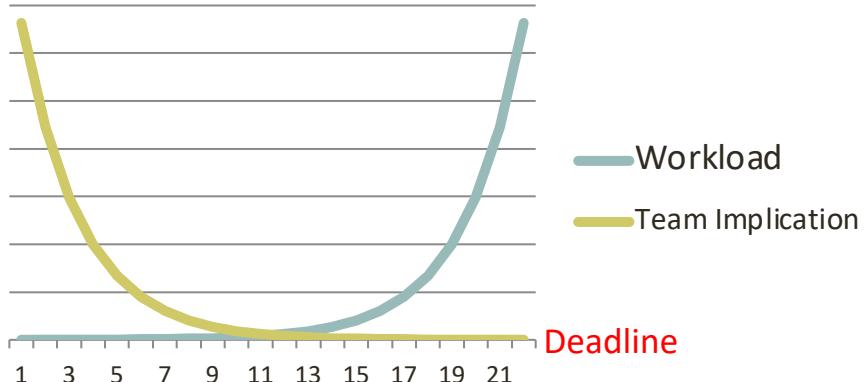
Deadline / Timeline
that we will not be able to meet



Real Questions come along project development

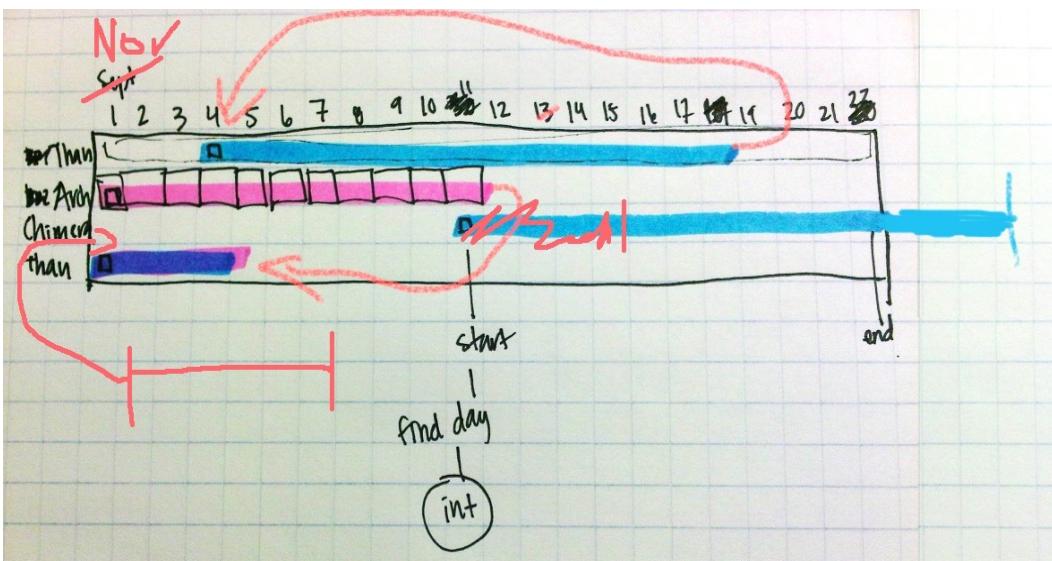
"Elastic" Specifications

Planning / GANTT in reality



Hey Guys - Give up everything, we have a new priority.

No time for specifications, we need it yesterday



Mmm, another useless Gantt !

Never mind, I will do another one that I will integrate in the End Project Report...



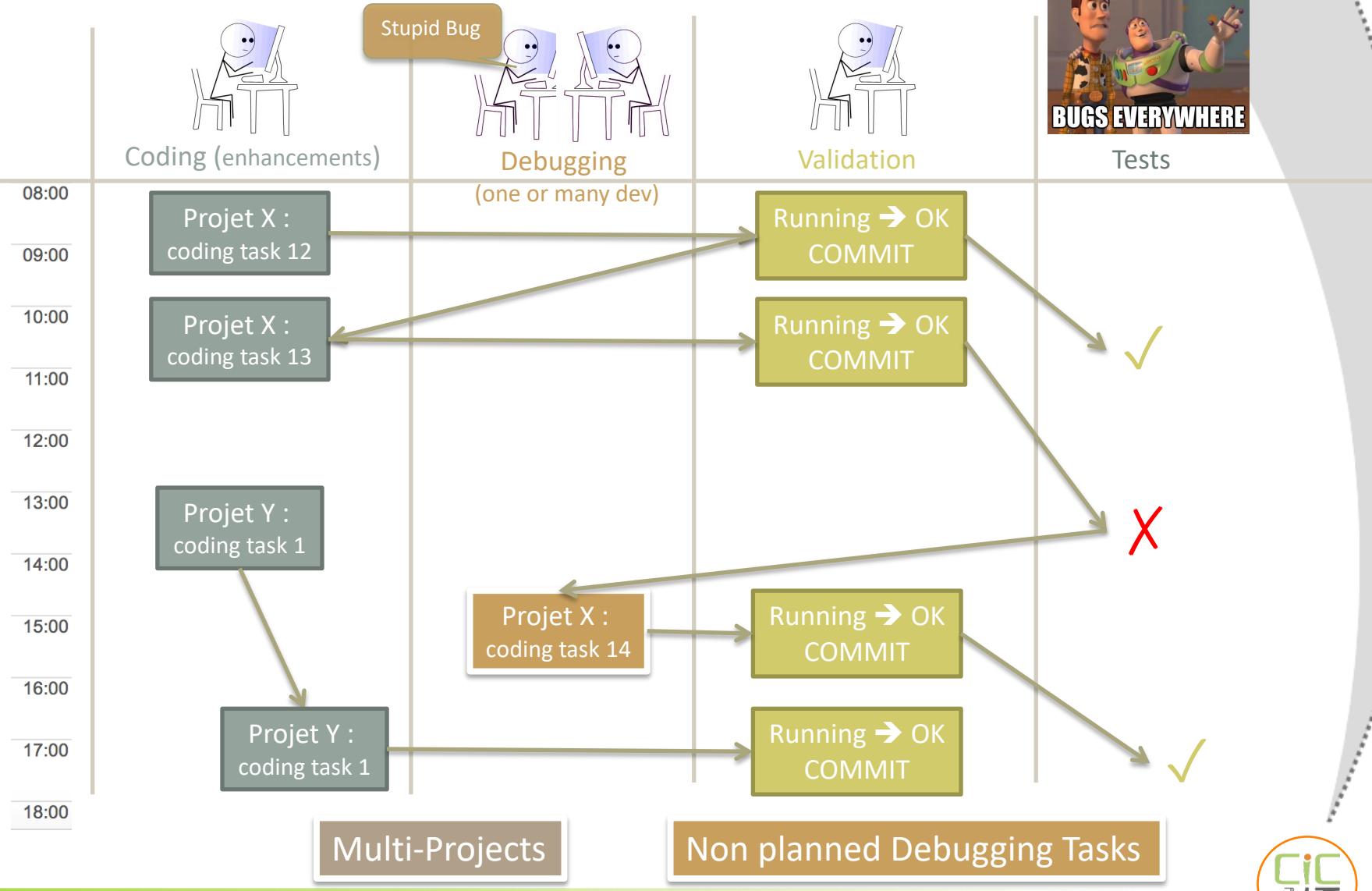
Unable to plan tasks accurately

Leading changes

Leading Urgency

GANTT is too static

Coding Tasks : Take an ordinary day ...



O Manage projects considering ...

Dynamic planning changes

Adaptive tasks

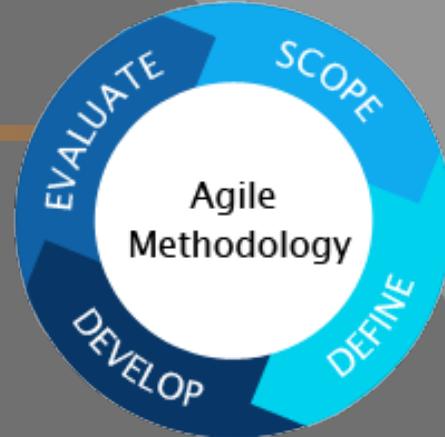
Scalable / Non rigid specification

Collaboration on technical points (bugs, critical points)

Multi-Project / Multi-Dev

Simple / Quick (No more documents / No more meetings)

O AGILE's Process (Iterative Methods)



Prescriptive

RUP

Scrum

Adaptive

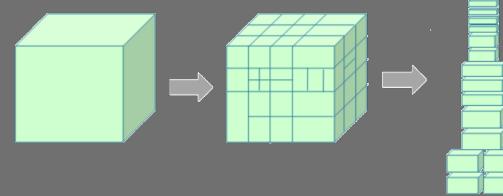
Freestyle

Xtrem Programming



Visualize the workflow

- Split the work into pieces, write each item on a card and put on the wall
- Assign tasks/items to different dev
- Use named columns to illustrate where each item is in the workflow.



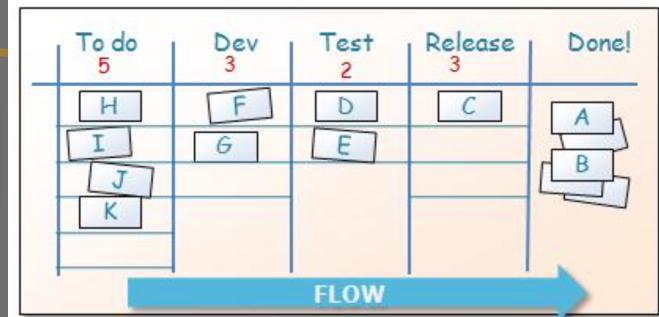
Limit WIP (work in progress)

- Assign explicit limits to how many items may be in progress at each workflow state.

Measure the lead time

(average time to complete one item, sometimes called “cycle time”)

- Optimize the process to make lead time as small and predictable as possible.



O In practice, we need

- A board



With (the most of time) 3 columns

And different post-it colors
depending on developer

- A regular quick meeting to review active tasks and re-affect new ones
- Lot's of post-its and magnets ☺



Benefits

Pretty cool when people coming in our office 😊

Visualize progress in a flash

Quickly identify pb with a specific or developer

Discuss about eventual blocking tasks



Drawbacks

No history

Difficulties for time estimation and statistics

Too much “manual” – *What a shame for programmers*