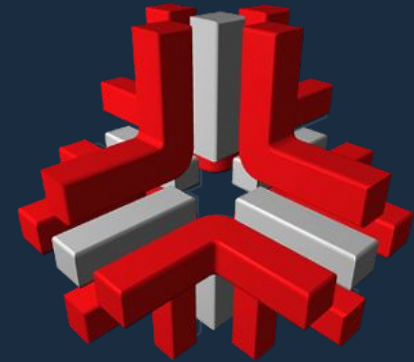


If productivity matters
(and it probably does)
then...

TEAM UP!

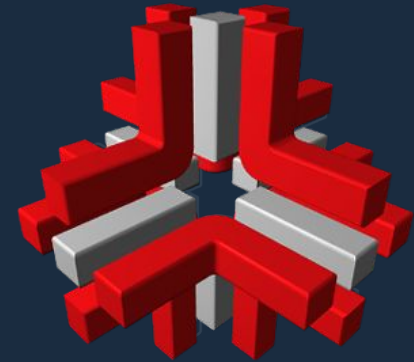


industrial logic

If productivity matters
(and it probably does)
then...

not
^

TEAM UP!

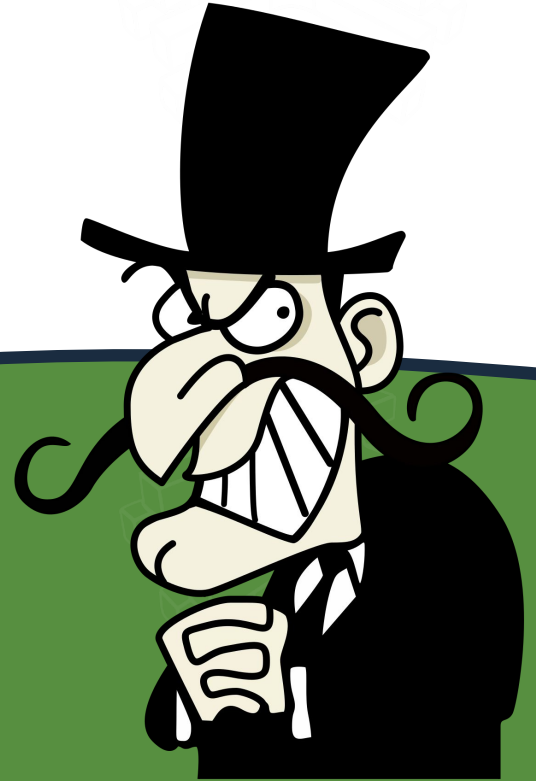


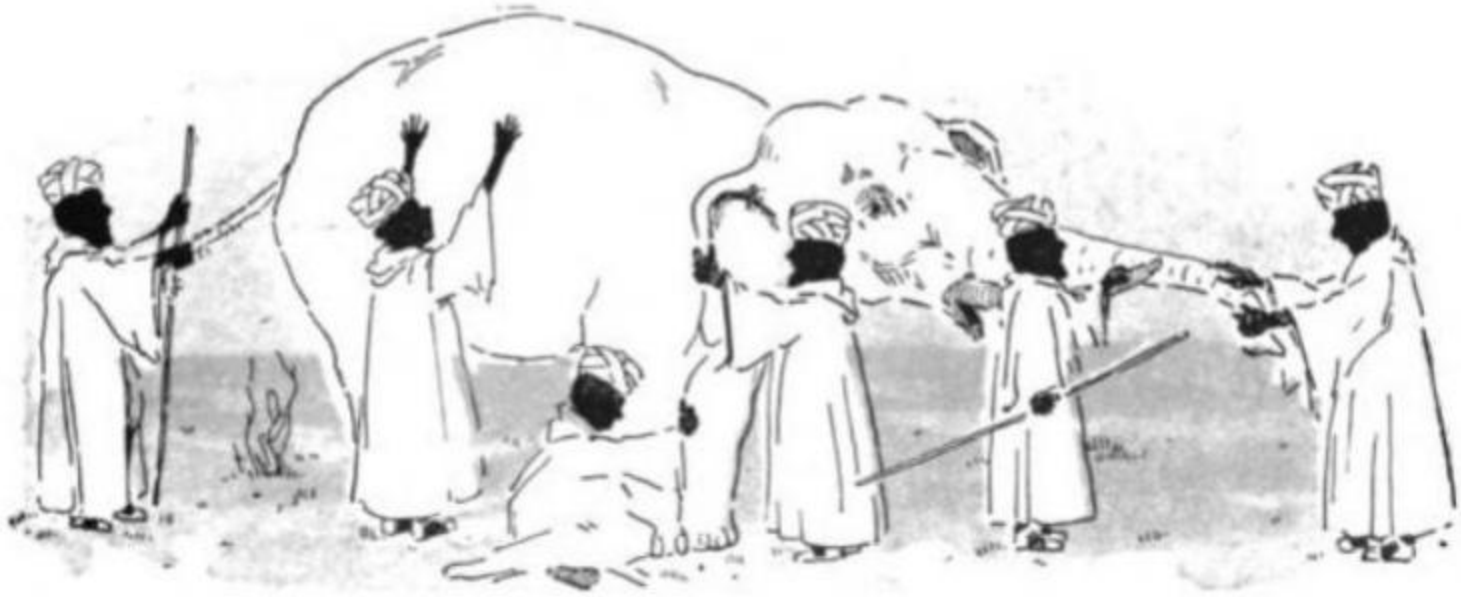
industrial logic

There are no villains in this piece

*Almost all of the people
Almost all of the time
Are just trying to be helpful*

Don Gray

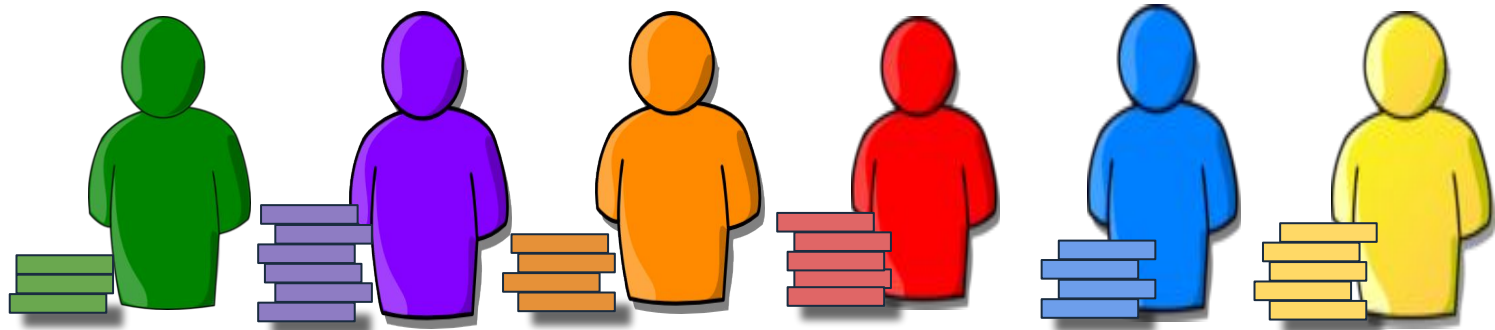




Over-communicating As Coping

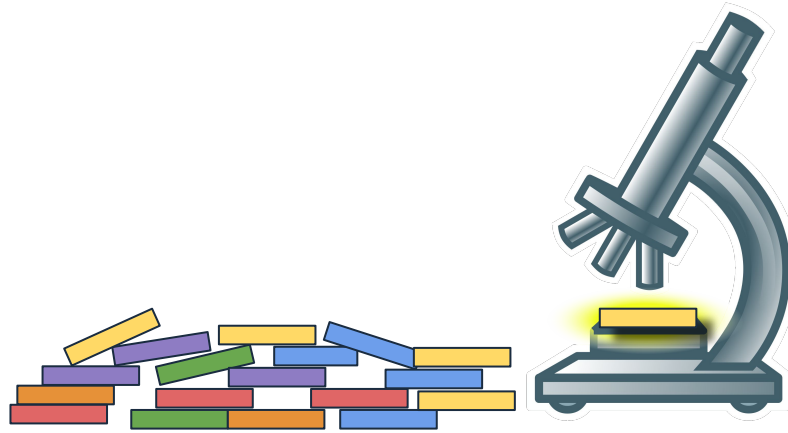


Individual Contributors



People have their own skill, knowledge, abilities, methods.
Work is split and assigned to the best individual for the job.

Inspections



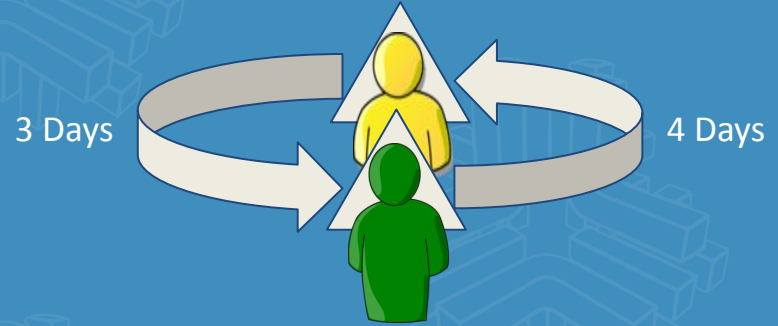
Each person has limited skills and knowledge.

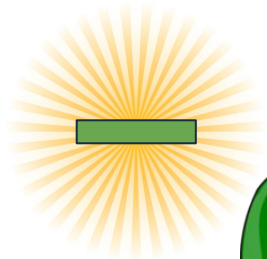
Each person is imperfect.

Any change may have defects.

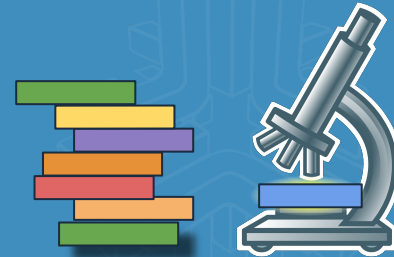
It takes time for code to cycle between people and departments in most organizations.

Each rejection from QA slows a feature by days or weeks. Some code comes back more than once.

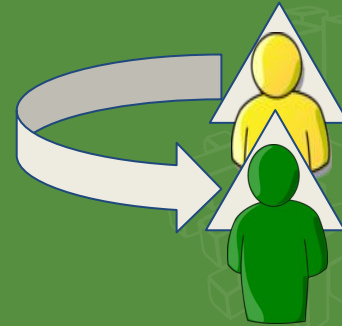




It's okay; I'm not blocked.
I can always take another
task!



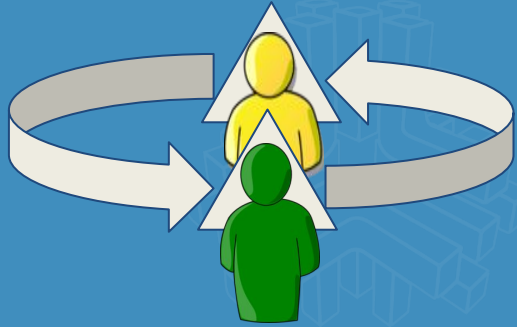
I've read that
the industry
average queue
time for a PR is 5
business days.



I've no data on
average time to
turn around after a
rejection

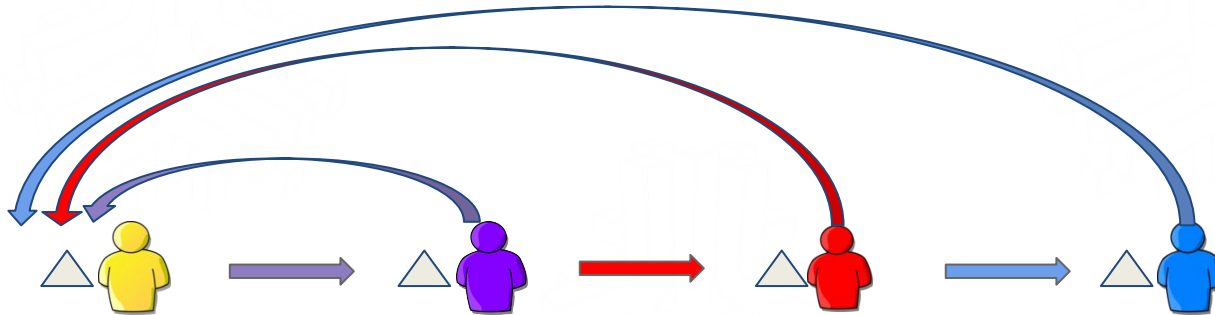
We've seen it take 2 months or more.



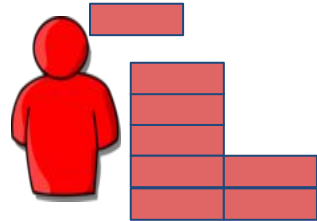
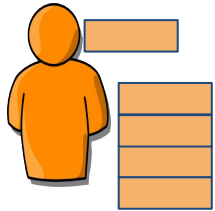
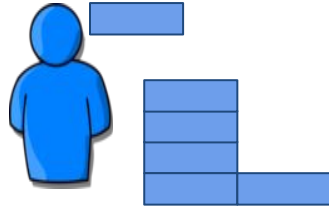
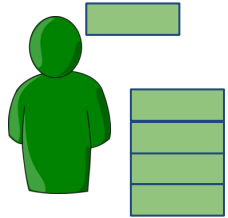


How many potential cycles do you have in your process?

How many NESTED loops in your process?

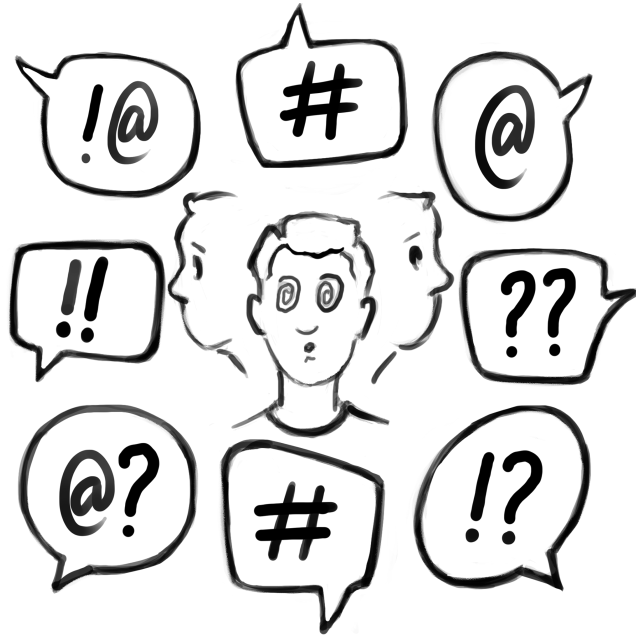


Work has to repeat each inner loop in order to make another pass at any outer loop.



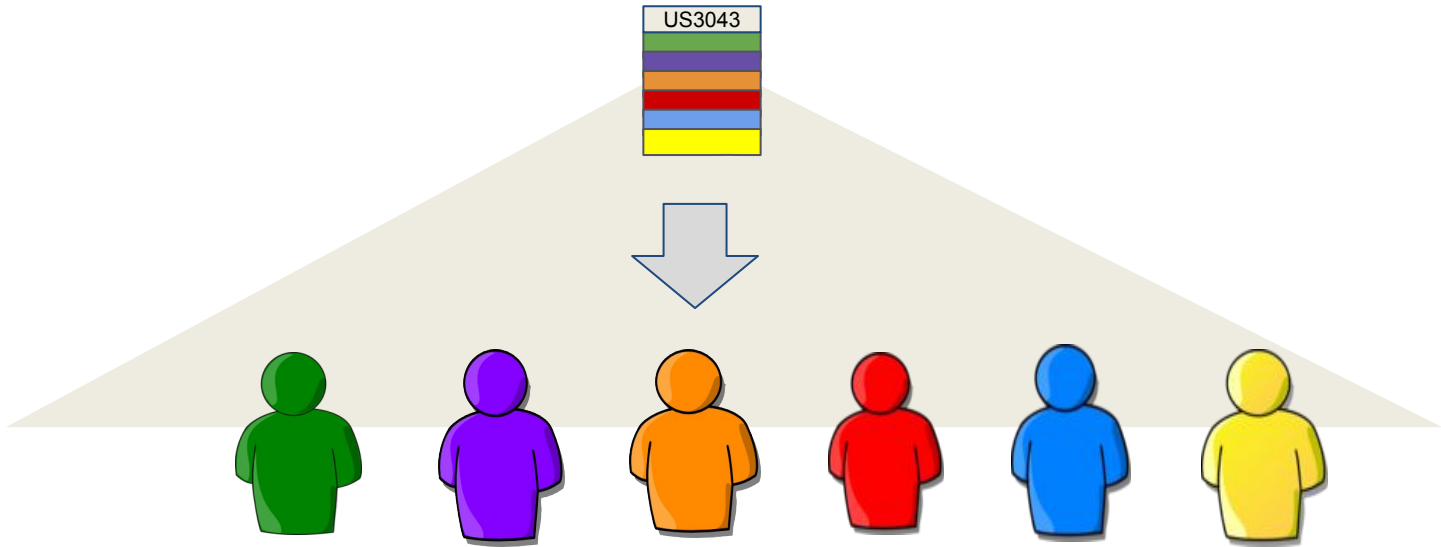
How much work isn't truly in progress?

How much partially-done work is waiting in queues?



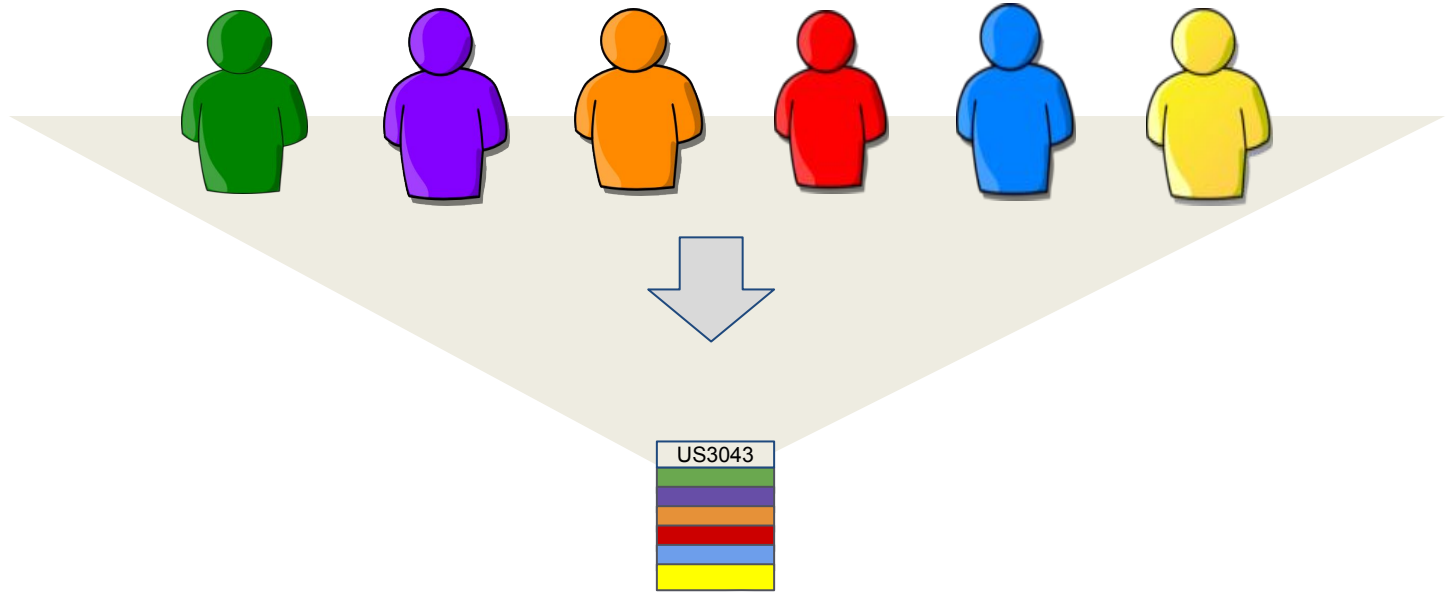
Each work item associated with your name is an invitation to interruption.

Work Scatter



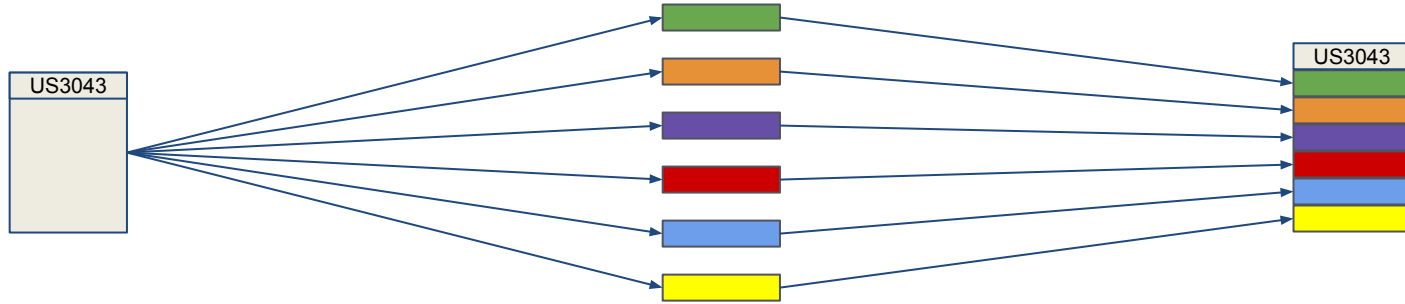
Splitting & assigning work per person's skills is senior-level work requiring considerable design up front.

Gather



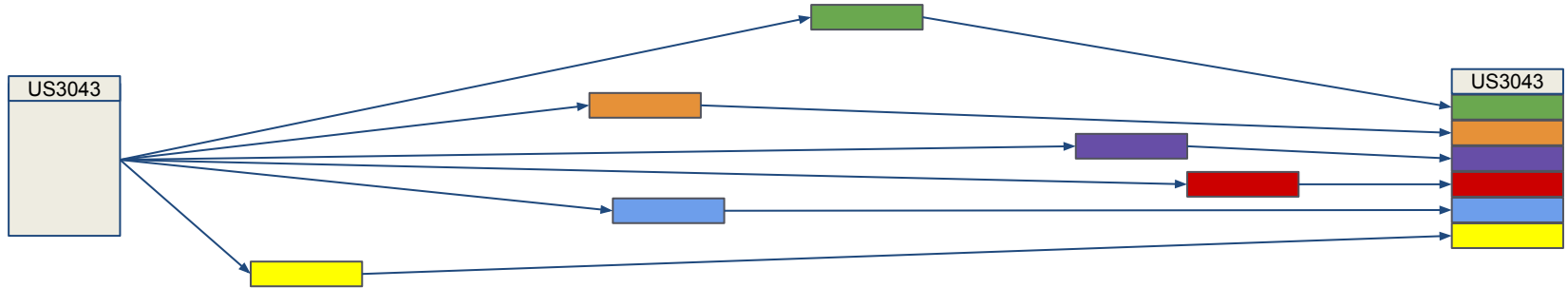
Ideally, the work will fit together w/o error when integrated.

Intention of Scatter/Gather



Because the work can be done in parallel, it should be done sooner than if the work, divided into the *same individual parts*, was done in a serialized manner.

Reality of Scatter/Gather



Work is seldom done in parallel...
... nor can it be.

Parallelization:

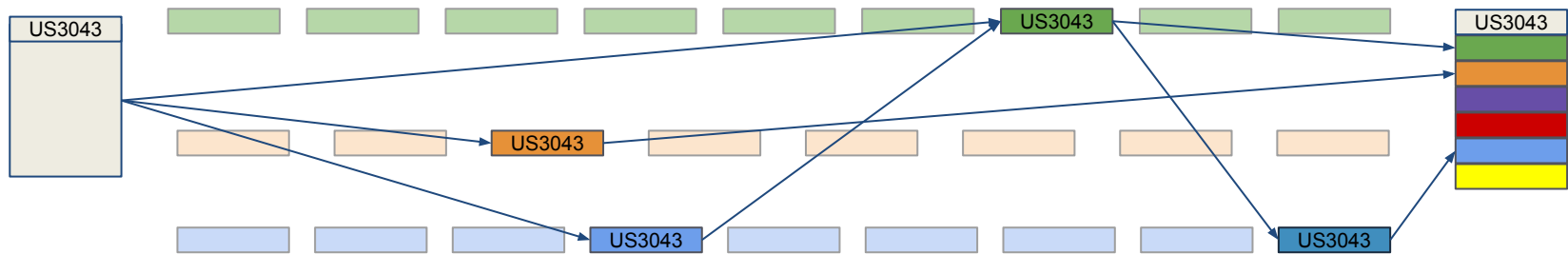
Independent jobs can be parallelized.

“I can wash dishes while you mop the bathroom.”

Dependent tasks less so:

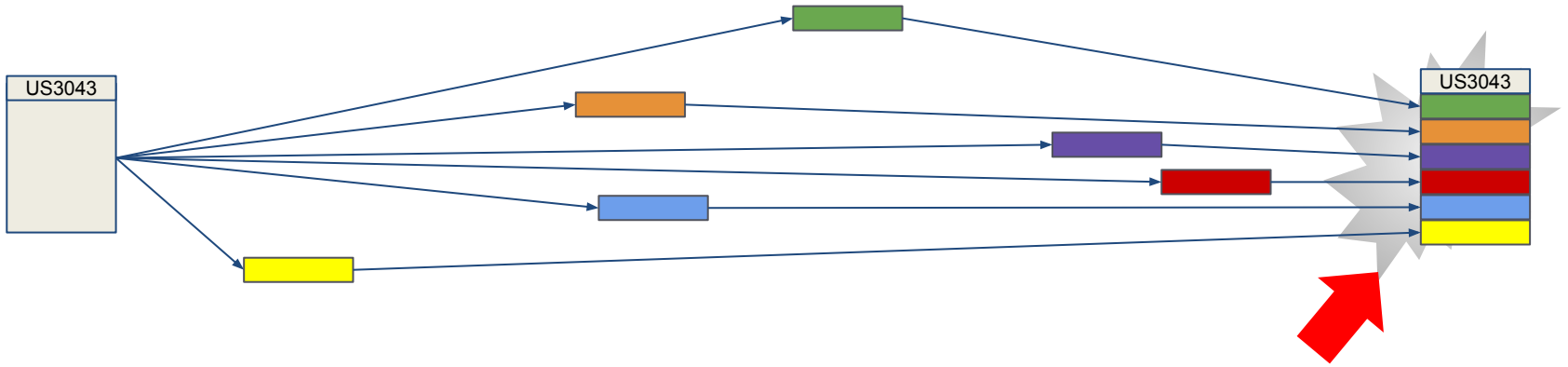
“I will wash the dishes while you cook in them.”

“I will wash the dishes while you eat from them!”

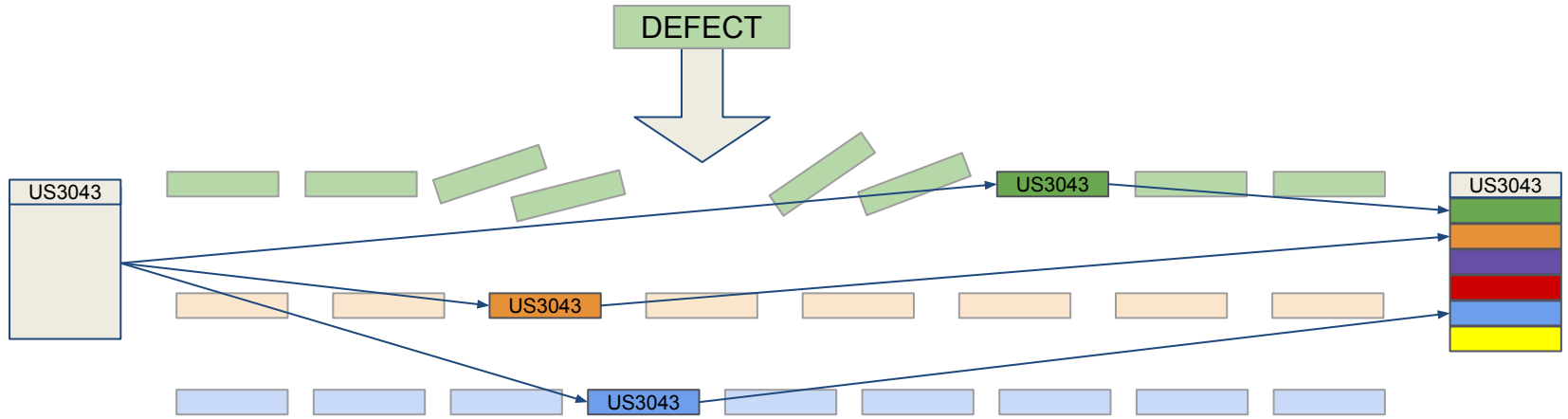


Each contributor has their own work queue and priorities.

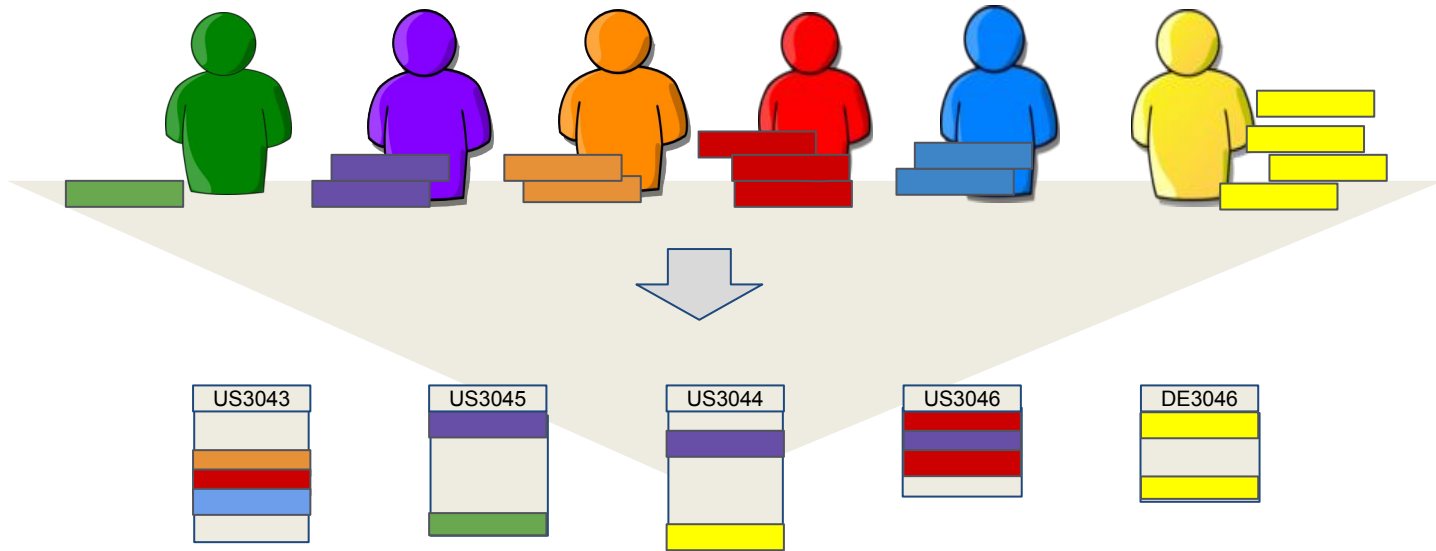
Tasks are not all independent

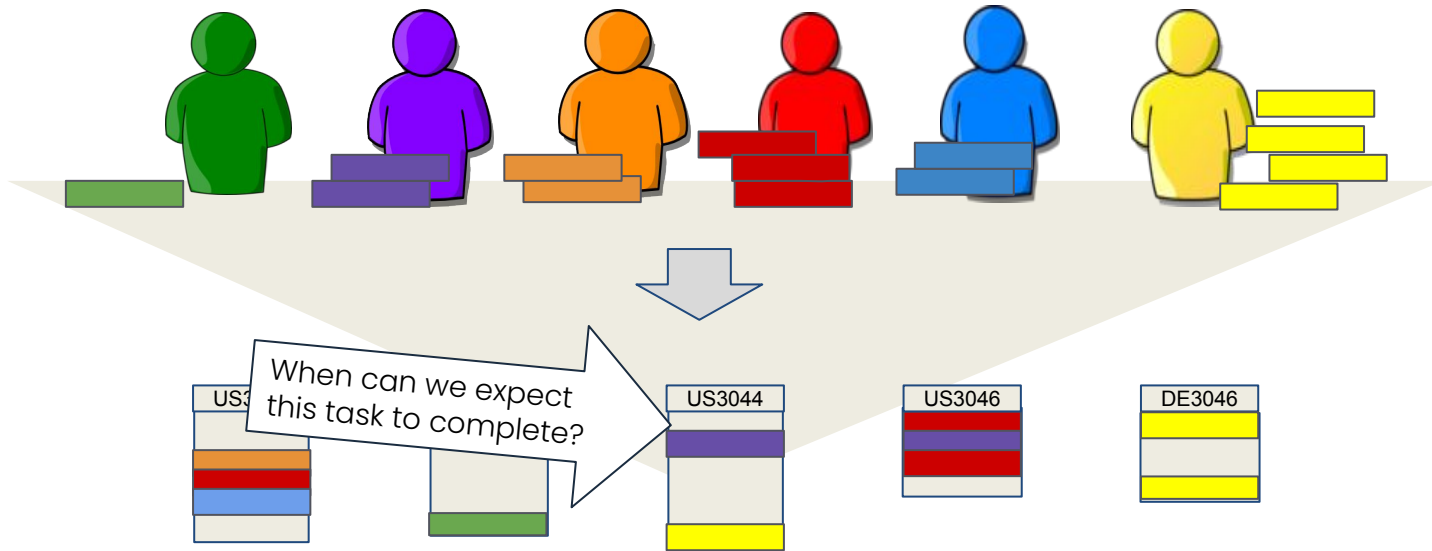


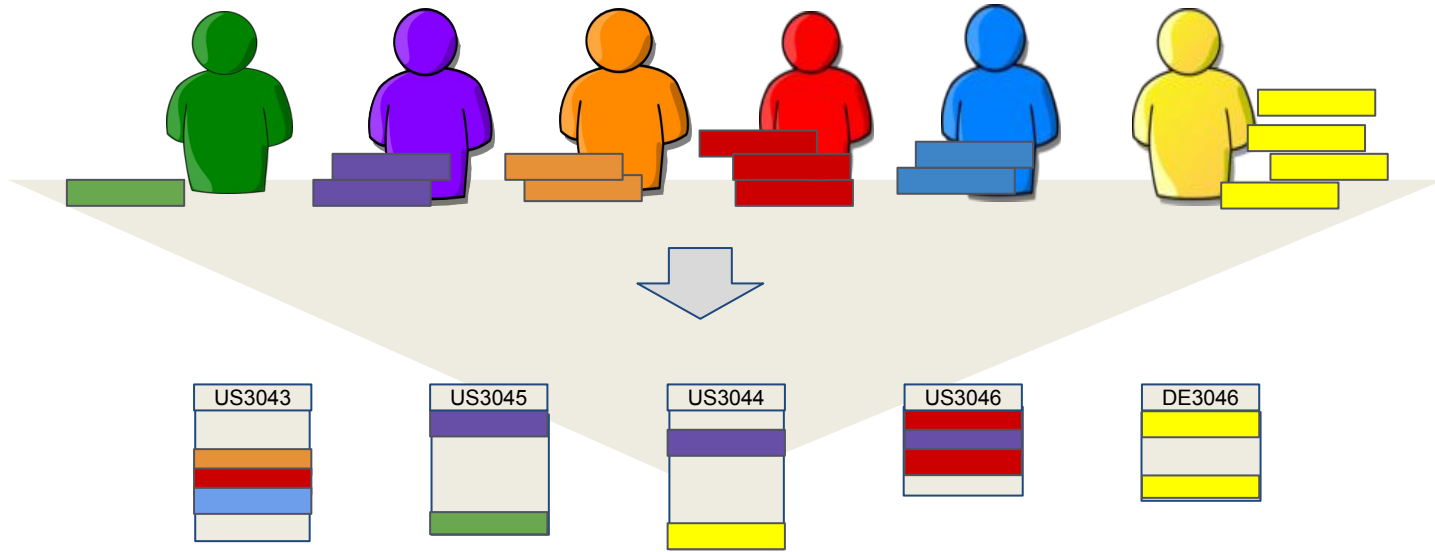
Because pieces were worked on by different people at different times, late integration failures are likely to loop defects back.



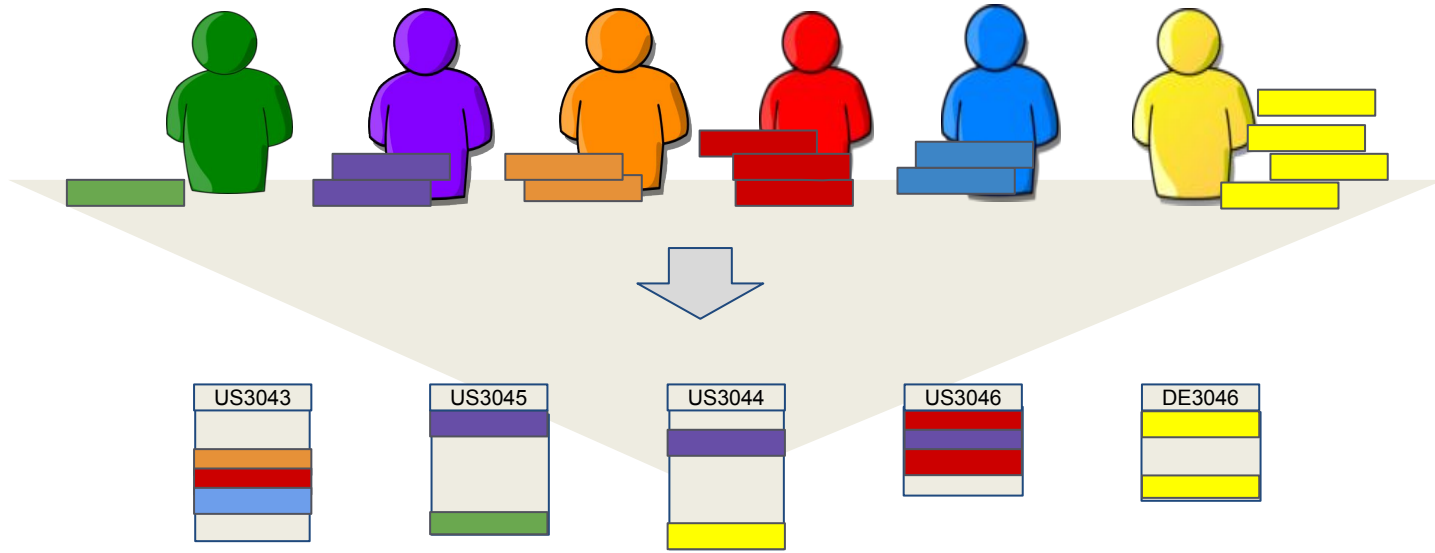
Each defect that loops back will disrupt a contributor's queue of work, delaying their work on any other features.







With *many* stories split, scattered,
and active at the same time,
predictability is lost.



Is this why we need sophisticated electronic systems: to help us track status of multiple, dependent, scattered work items?

[Home](#) > [Blog](#) > [Faster and More Predictable](#)

Faster and More Predictable

Tim Ottinger

03 Dec 2021 - 25 min read



[Agile](#) [Culture](#) [Mob Programming](#) [Pair Programming](#) [Process Improvement](#)

Everyone wants their software development organization to be **faster** and more predictable.

For most organizations, this is possible.

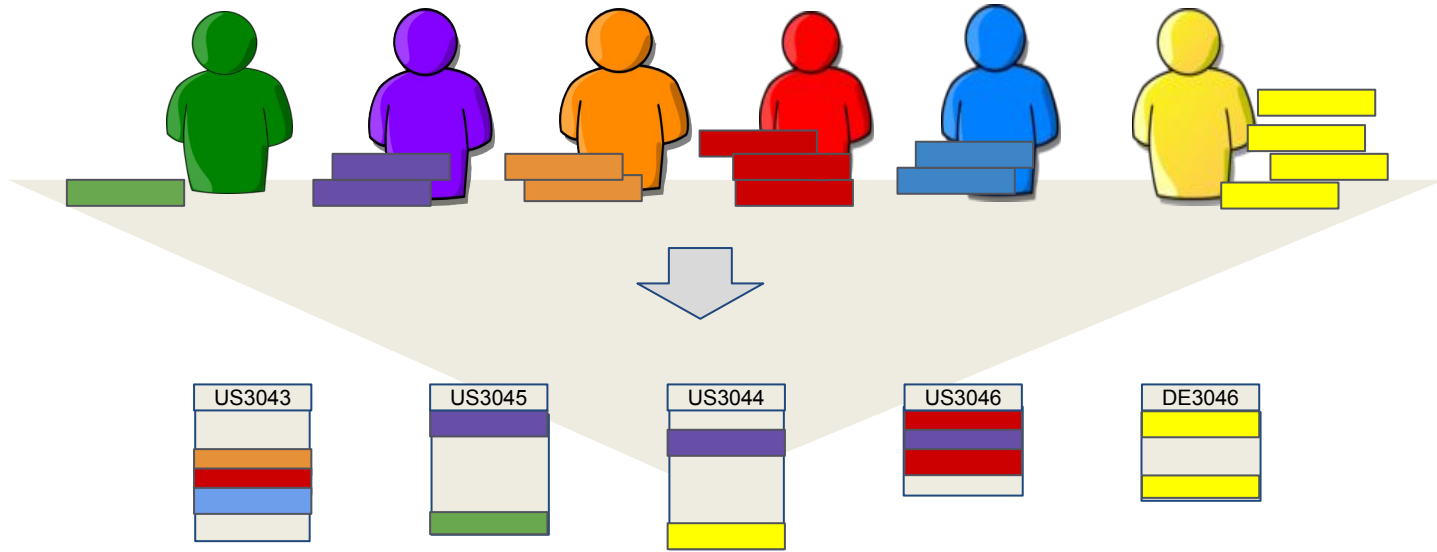


Tim Ottinger

Senior Consultant
Round Lake Beach, IL - USA

Contact





Do we receive higher throughput for the loss in predictability?





We would like to think so.

We take it on faith that we are getting more done since we are working on so many things and everyone is so busy!

[Home](#) > [Blog](#) > [Over-Starting and Under-Finishing](#)

Over-Starting and Under-Finishing

Tim Ottinger

18 Aug 2015 - 4 min read



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Agile

Anzen



WHEW: we made it through the dark spaces.

Here are some kittens.



Watch the Baton, not the Runner!

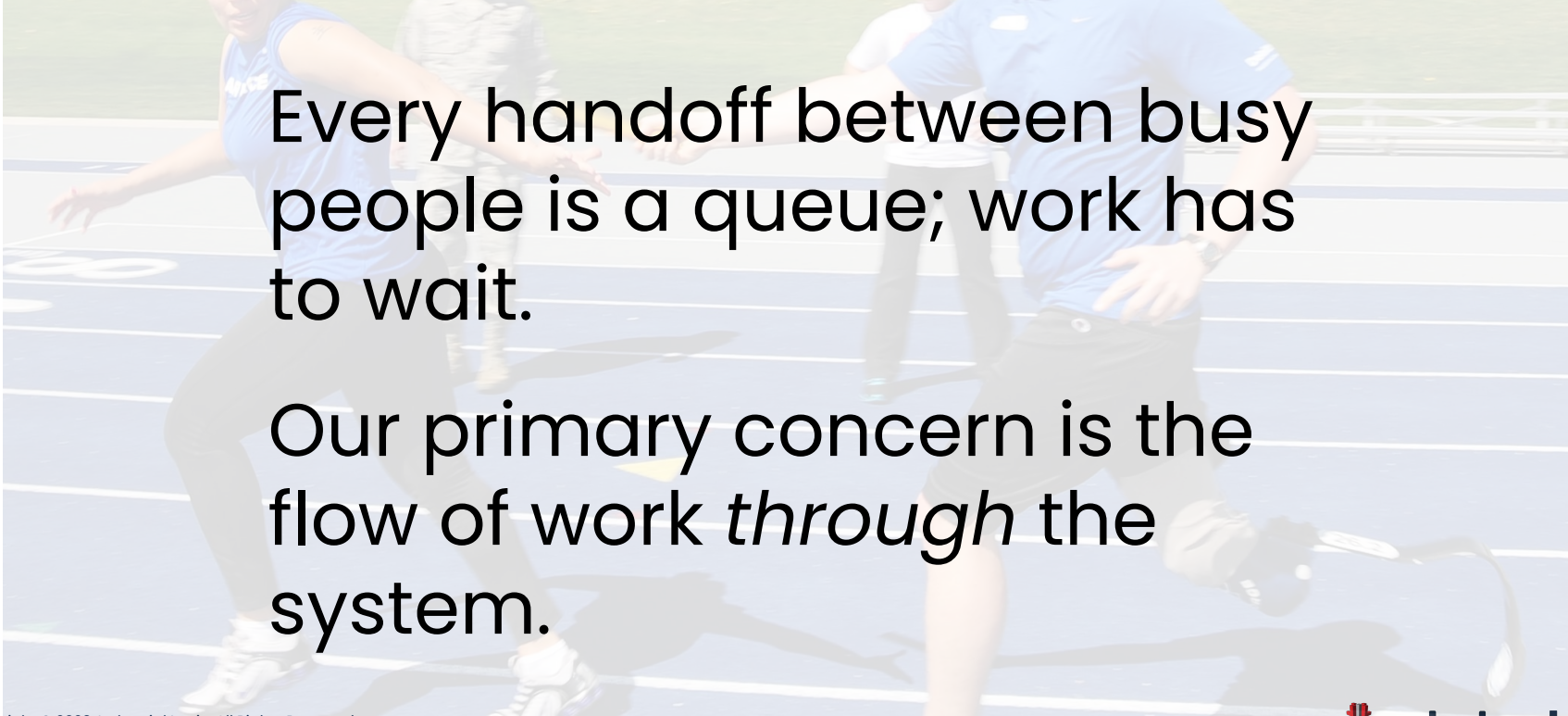
Runner



Baton



Watch the Baton, Not The Runners



Every handoff between busy people is a queue; work has to wait.

Our primary concern is the flow of work *through* the system.

Oh, hey!
Aren't these mostly
consequences of
scatter-gather and solo
work assignments?



Requirements are not clear and relevant

Constant interruptions

Waiting for answers to questions

Waiting on PR, QA, etc

Work returned from PR, QA, etc

Lack of product knowledge

Permissions issues

Loops and nested loops

Solo specialist assignments

Requirements are not clear and relevant

Constant interruptions

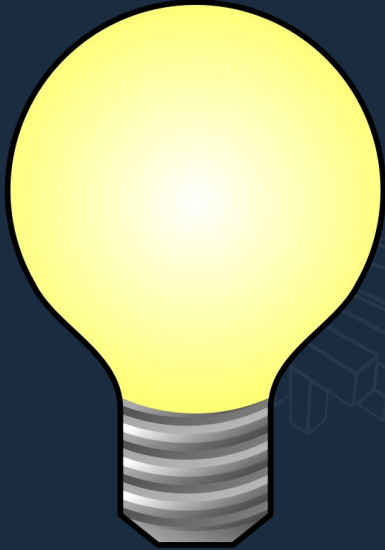
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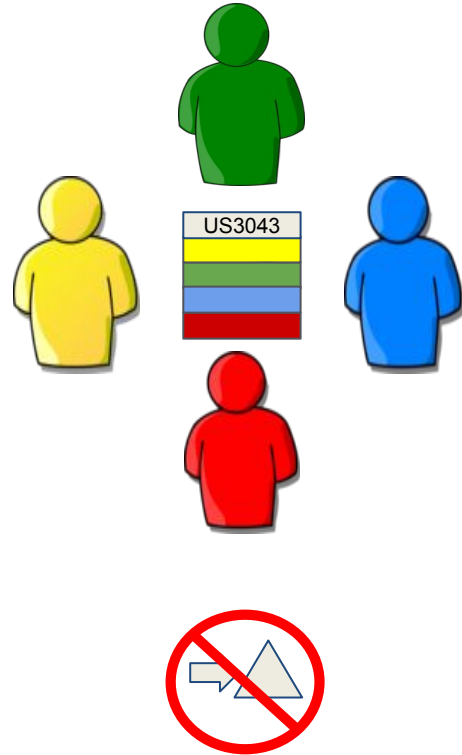


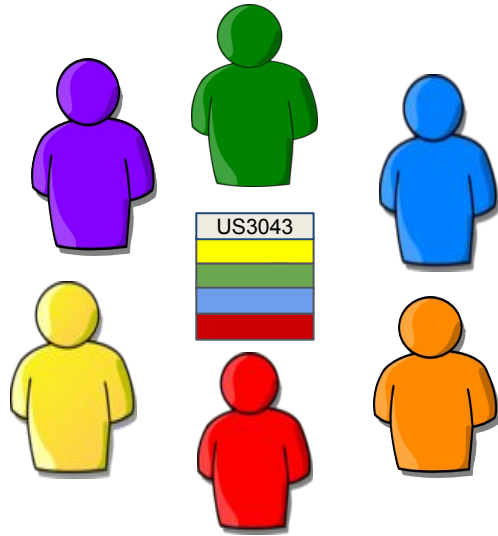
What if...

Instead of *splitting the work*,
we *gathered the people*?

Gather people to avoid
queues and handoffs
between them.

Start together
Work together
Finish together





Include those who might
otherwise reject/loop
work back.

Start together
Work together
Finish together

For the scrum people in the room...

Scrum Teams are cross-functional, meaning the members have all the skills necessary to create value each Sprint. They are also self-managing, meaning they internally decide who does what, when, and how.

The Scrum Guide, 2020

For the XP people in the room...

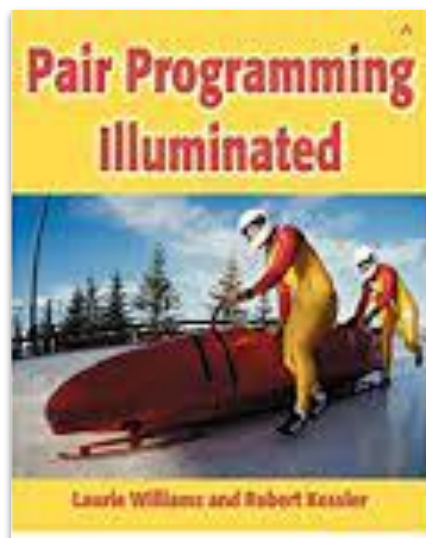
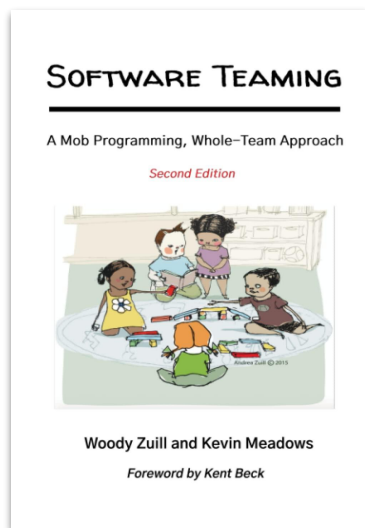
*XP teams are **self-organizing and cross-functional**. This has two important consequences: first, they're responsible for their own success. This means teams define success (by interviewing stakeholders and sponsors), create plans to achieve success, and execute on those plans without explicit management direction.*

*Second, **XP teams include all the expertise necessary** to do so.*

*In practice, XP teams are composed of business experts ("customers"), implementation experts ("programmers"), and quality experts ("testers"). **The whole team works together** to create its own plans and deliver successful software. No single person is "in charge." Instead, leadership shifts fluidly with the situation.*

James Shore

It Has Always Been About Working Together





Unevenness of skill and product knowledge

Each important skill need only be in the team, rather than in each individual.

Teams can review the code as they are writing it, from multiple viewpoints.

Code is vetted and tested before it is committed, eliminating queues.

Lower WIP

With fewer things in progress there is less to keep track of.

Work is sliced to deliver, not to developer's specific skill sets.





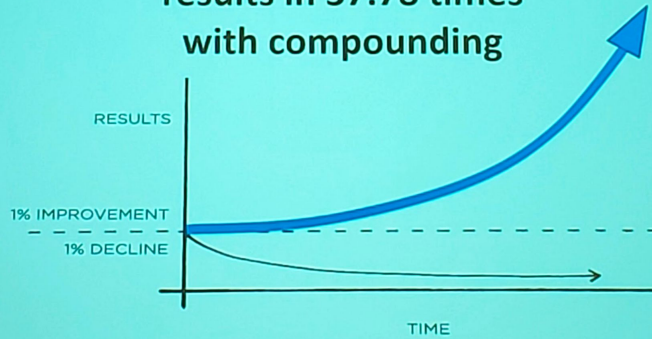
By Tim Ottinger

Pitfalls Of Solo Work

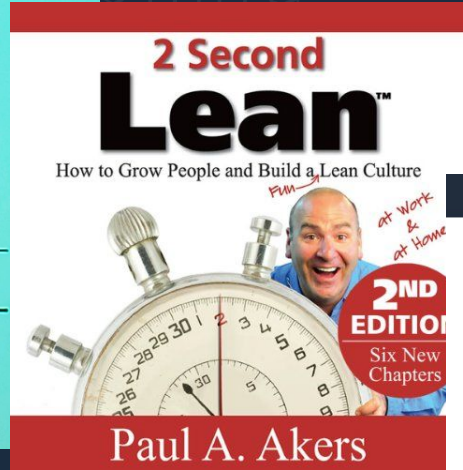
Is dividing work among individuals really effective? Maybe not...



1% Per day for a year
results in 37.78 times
with compounding



James Clear – Atomic Habits



industrial logic Services Content Cr

Home > Blog > Small Things

Small Things

Tim Ottinger

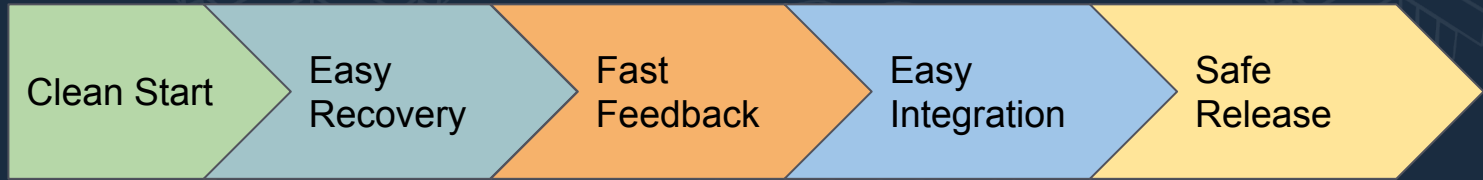
14 Jul 2016 - 6 min read

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Learning

Large changes are hard.

Hard enough that they seldom happen.





Check git status, it should be 100% clean (no leftovers)
Check out from the main branch
All Tests run GREEN
You know that you have no unfinished work



Make small changes

Work with tests so that you can spot an error quickly

Commit frequently so you can safely roll back



Rely on tests as you work
The whole team deliberates together
Integrate frequently to spot incompatibilities
Sponsors review product as it is being developed



Frequently pull from main so you spot issues early
Test before and after integrating from main
Test before pushing to main
Monitor the CI pipeline



Automate releases so no human error is introduced
Create zero-downtime releases
Automated tests cover key functionality
Feature flags/toggles used where necessary



I'm moving to Scotland!

I will serve Europe, Asia, and the US
from my new home in Edinburgh.

Availability starting in October.

Check out our public workshops!



