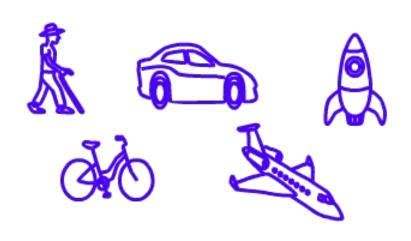
What does "speed" mean in software product delivery?



Jason Yip
Agile Coach, Spotify NYC
@ jchyip
jyip@spotify.com
https://medium.com/@jchyip











What feels fast (the human experience of speed)





What feels fast



actually fast

(in terms of measurable outcomes)

Feeling fast is about removing friction.



Friction is when it feels like the work is fighting you.











"Make everything better." "What does that mean?" "Work it out." "Are there any constraints?" "Work it out." "What are the main things to do?" It feels slow when goals are unclear.

"Remove friction from day-to-day work in order to improve work experience."

Then and rationale rationale

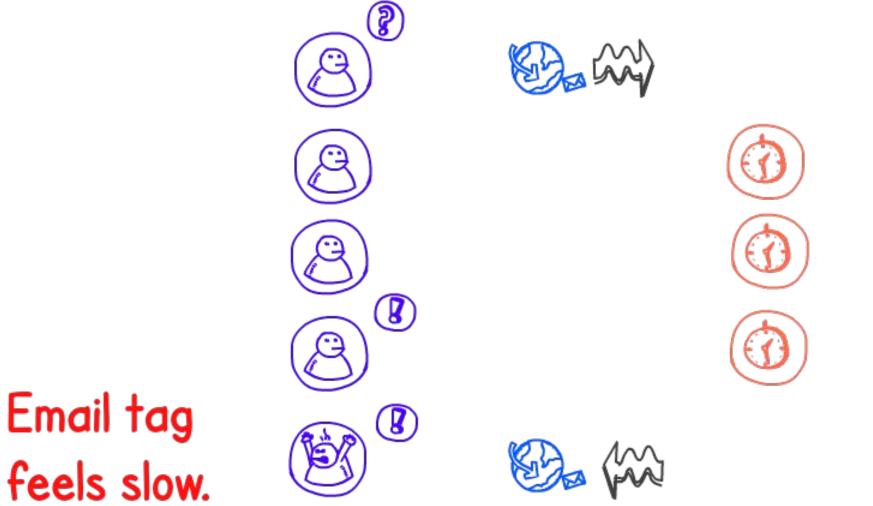
"Stay within in-team activities."

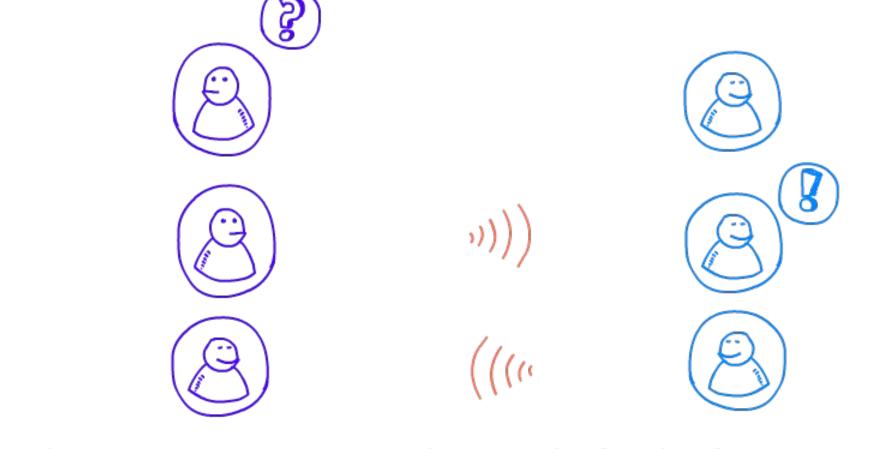
Constraints

*Main opportunities are probably within: Main implied tasks

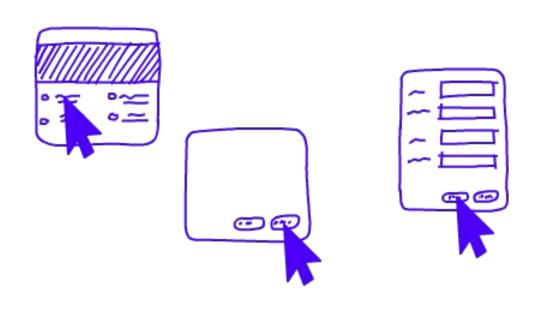
1. How we describe work

It feels fast when goals are clear.





Just turning around to ask feels fast.









```
O S[]="syntax error!"
                        "M@K~|JOEF\\^~ NHI]"; L*N,*K,*
                   B,*E,*T,*A,*x,D; Q(*k)(),v; V z(P),j,,*
                o,b,f,u,s,c,a,t,e,d; J 1; Q k(P){ R*K?*K++:
              ~-d; } V r(L a){ R a&&putchar(a); } L n(){ R*T=j=
             k(),++j;  0 G(P) { *o=d,longjmp(l,b); } Z g(Y a){ R a
          >>s (a\&-e)<<s; C p(L*T) { W(r(*T++)); *--T-c&&r(c);} L m
        (P)\{ W(!((v=A[*T++])-f)); R v; \} P q(L**N) \{ 0*q; b=!b; f=-~b; \}
       u=f|b; s=b<<u; c=s|f;
                                                    a=s<<f: t=-~u: e=a
     <<u; D=v=u<<t;q=S
                                                         +c-~t; q[~s]=a;
    q--[f]+=a;q--[c
                                                             ]+=a; B=(L*)
    N+~e*e;x=B+e
                                                                ; A=B+e/f;
  o=(V^*)(x+a)
                                                                     ); A[-
  ~s]=f; T
                                                                      =K =A-
 a*f;A[*--
                                                                       q]=c+
 c; *q=!
                                                                        c; W
(++j&&*
                                                                         ++q)
A[*q-a
                                                                         ]=j;
W(v<D
                                                                          +c)
     Confusing code feels slow.
]=j;
 , V=
                                                                         D=e/
  t;
                                                                        W(++
                                                                       D+f*
   v<=
                                                                    [V-D+~
    u)x
    -c]=
                                                                   v a,A[
      v]=A
                                                                 [v a]=j;
                                                              A[v]=A[v|a
          ]=j
                                                               ,++v<a*u+~t));
                                                               ; E=*++N;T[~d]
                                                               (*T++=*E++);k=
```

```
public List getFlaggedCells() {
    List flaggedCells = new ArrayList();
    for (Cell cell : gameBoard){
        if (cell.isFlagged())
            flaggedCells.add(cell);
    return flaggedCells;
```

08:00	<u></u>						
District	08:30 - REMINDER: Pos	08:30 - REMINDER: Post	08:30 - REMINDER: Post	08:30 - REMINDER: Post	08:30 - REMINDER: Post		
09:00				◆ 09:00 - TF 09:00 - Talk			
	09:30 - Introductions & O	09:30 - Boote 09:30 - Boot	09:30 - Bootcamp Sprint				
		10:00 – 12:30 Postcomp Project		10:00 - Dropbear daily sta	10:00 - Dropbear daily sta		
1	Journeylines Workshop 3rd floor classroom	Bootcamp Project Story Creation			10:30 – 11:20 Conversion Sprint		
1:00	11:00 - 12:00	Hunter Conference	11:00 - 11:50		demos and		
	Market of Standard or In-app Standard or In-app Standard						
	3rd floor class 11:			` - · · ·	o - III-app Standup		
2:00	12:00 – 13:00 Lunch & Overvi 3rd floor classroon	o many m	eetings f	eels slow	•		
2:00	12:00 – 13:00 Lunch & Overvi 3rd floor classroon 13:00 – 14:30	o many m	13:00 - 14:00 13:00 - DUSY	13:00 - 13:00	13:00 – 13:50		
2:00	12:00 – 13:00 Lunch & Overvi 3rd floor classroon 13:00 – 14:30 Agile Intro - purpose, workflow				13:00 – 13:50 CREAM Tech Managemer (*) 13:30 – 14		
3:00	12:00 – 13:00 Lunch & Overvi 3rd floor classroon 13:00 – 14:30 Agile Intro - purpose, workflow 3rd floor class 14:00 - CRE	Hunter	13:00 - 14:00 13:00 - DUSY Agile Coach NYC - 3rd - Good Times	13:00 – 13:50 CREAM TPD Leads 14:00 – 14:50 Sketch options for	13:00 – 13:50 CREAM Tech		
3:00	12:00 – 13:00 Lunch & Overvi 3rd floor classroon 13:00 – 14:30 Agile Intro - purpose, workflow 3rd floor class 14:00 - CRE	Hunter 13:30 - AC Hiring Commi 14:00 - 15:00 14:00 - Con	13:00 – 14:00 13:00 - Dusy Agile Coach NYC - 3rd - Good Times 14:00 – 16 14:00 – 14:50 Click-2-Play [Mandatory NYC - 3rd - Ht 1 4rde	13:00 – 13:50 CREAM TPD Leads	13:00 – 13:50 CREAM Tech Managemer (13:30 – 14 Paradox		
12:00 13:00 14:00	12:00 – 13:00 Lunch & Overvi 3rd floor classroon 13:00 – 14:30 Agile Intro - purpose, workflow 3rd floor class 14:00 - CRE 14:30 – 15:50 Expectation	Hunter 13:30 - AC Hiring Commi 14:00 - 15:00 Set up Dev	13:00 – 14:00 13:00 - DUSY Agile Coach NYC - 3rd - Good Times 14:00 – 16 14:00 – 14:50 Click-2-Play [Mandatory	13:00 – 13:50 CREAM TPD Leads 14:00 – 14:50 Sketch options for	13:00 – 13:50 CREAM Tech Managemer (*) 13:30 – 14 Paradox		

08:00				
09:00				
10:00				
11:00				
12:00	Meetina	-free days	feel fast.	
13:00				
13:00				
14:00				

Friction is when it feels like the work is fighting you.







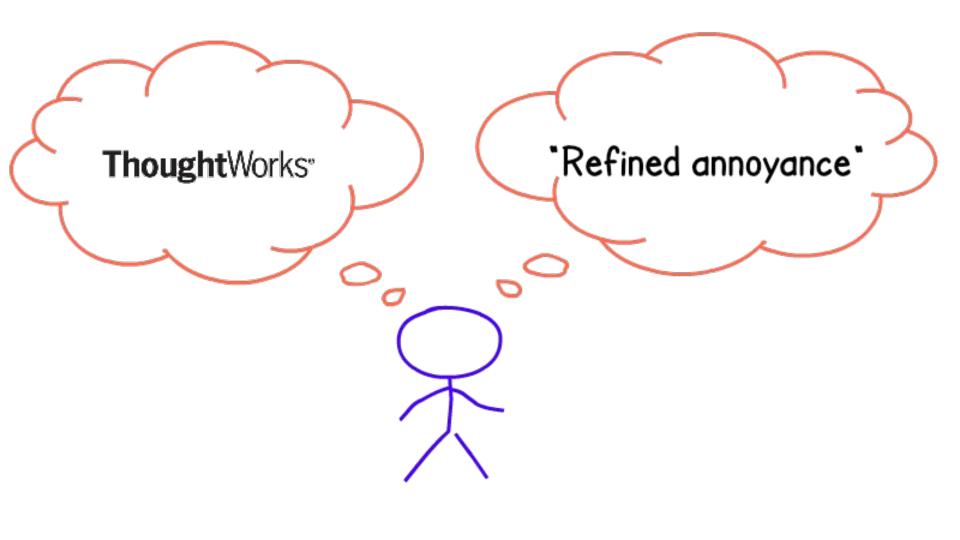






Feeling fast is about removing friction.





"Refined annoyance":

Refusal to accept friction of any kind



Refined annoyance



If you don't know what to work on next

chase people, explore yourself, whatever to find out... immediately



Refined annoyance

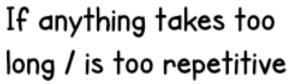




cruisecontrol.









automate, build tools, whatever is necessary

Refined annoyance









"The names we're using are slightly confusing."

Clear naming is a high priority issue. Find better names.



Friction goes away primarily due to a systematic habit of "refined annoyance"

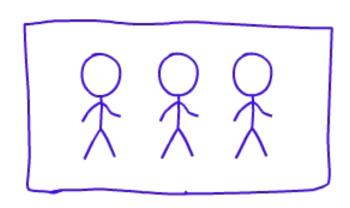


Friction goes away primarily due to a systematic habit of "refined annoyance"

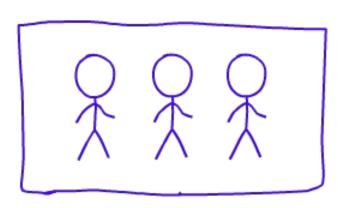




How does one cultivate this?



Separate "developer productivity" team



Separate "developer productivity" team



Deliver useful tools and platforms



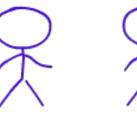
Cultivate habits (typically not)

The only tactics I've seen work...

Filter for "refined annoyance" when hiring

"Could you share an example of...?"



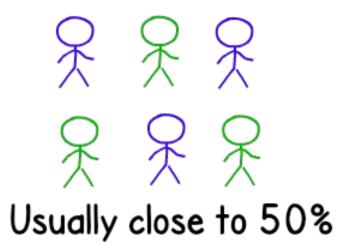


Pairing, embedding, role modeling

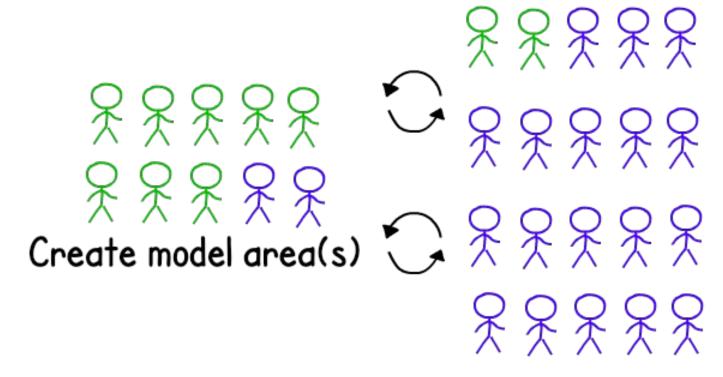




Role model team / area



Incubator



Rotate people through



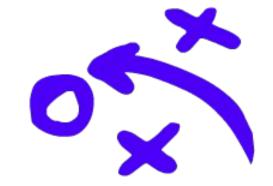
What feels fast



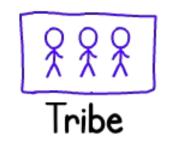
actually fast

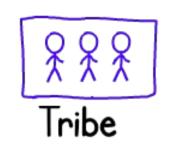
(in terms of measurable outcomes)

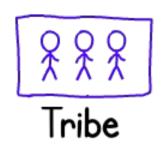
Actually delivering fast is about designing how you deliver



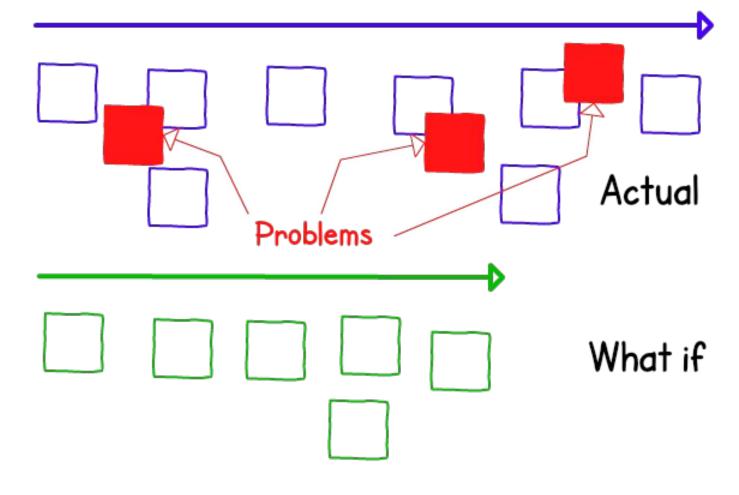
How might we improve the speed of discovery and delivery at Spotify?







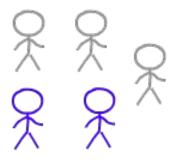
Nominations of deliveries that were particularly fast or slow (mostly the latter)



Key point: focus on impact to calendar time

- 1. "Zombie projects"
- 2. Delivery accountability / decision making
 - 3. Large launches

"Zombie projects"



Insufficient staffing Not really alive (no real progress)



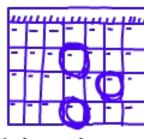






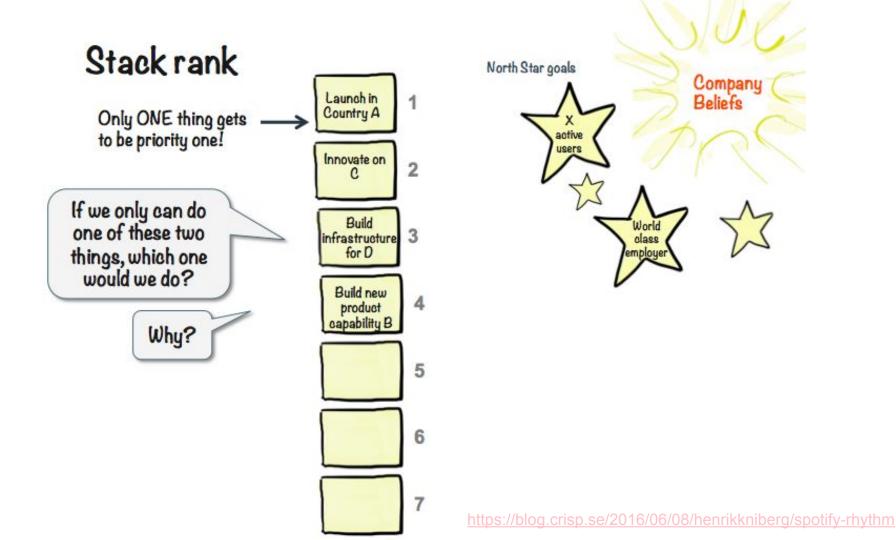
Time filling activities Not really dead





Months of delay

(unavailable for other work)



"Delivery accountability"





Delivery of goals / milestones

Tech health



Org health



Design
Holistic user
experience



Technical Owner

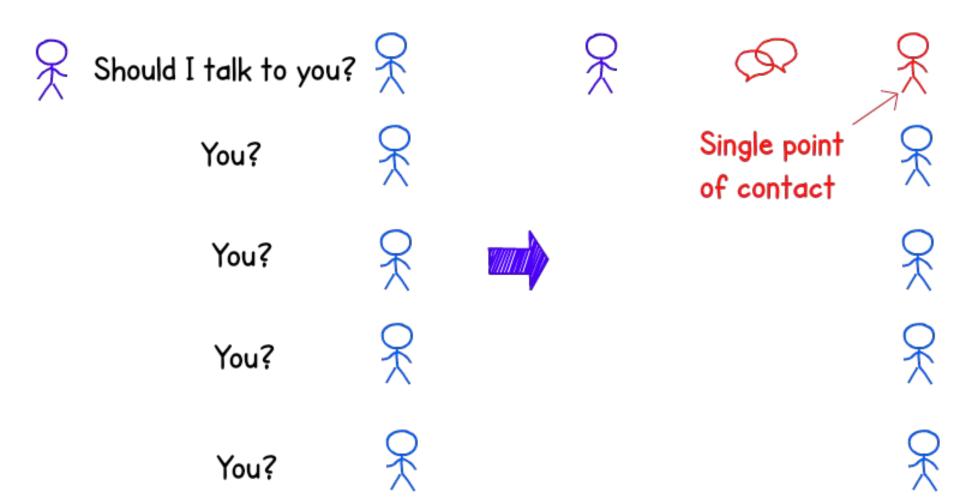
Primary point of contact for Squad delivery



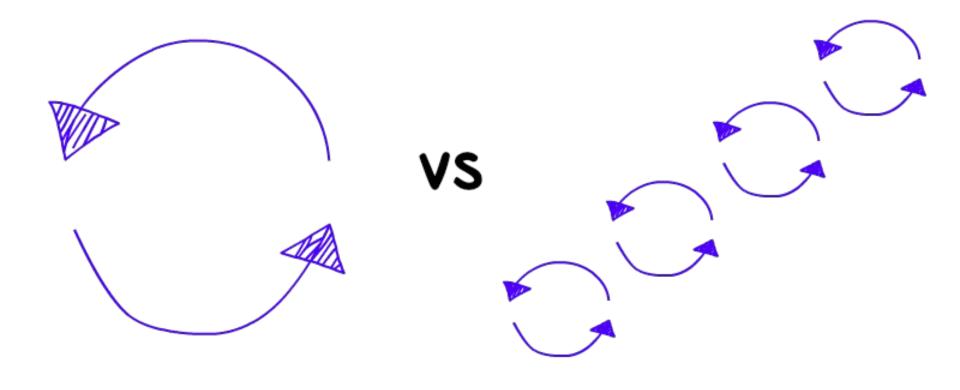
Product Owner



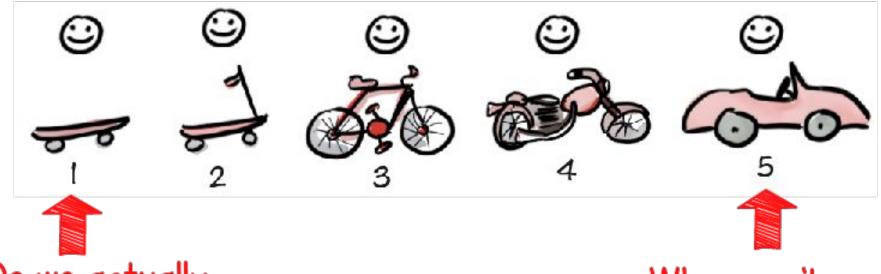
Designer



The allure of large changes



Inevitable questions about iterative-incremental delivery



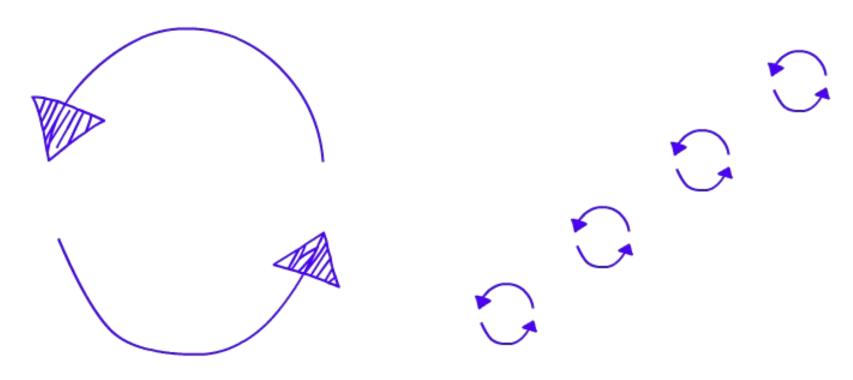
Do we actually learn anything from this?

Do we really need so many iterations?

Why aren't we more amibitious?

The more you know, the easier it is to assume you know more than you know





Measure the difference?

Parallel efforts Conquer and divide

Month 1 Month 2 Month 3

iOS Android Desktop Test

iOS

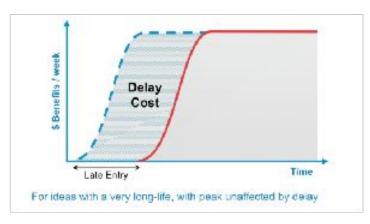
Android

Desktop



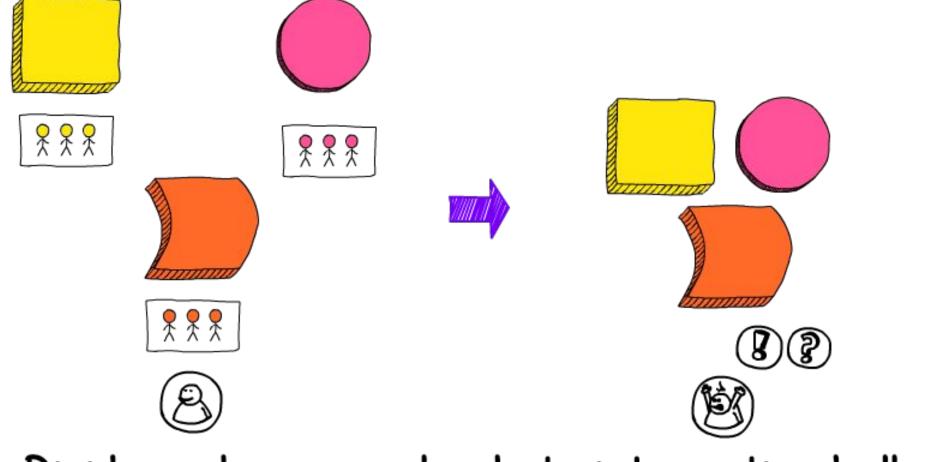
Gamble potentially wasted effort to gain calendar time



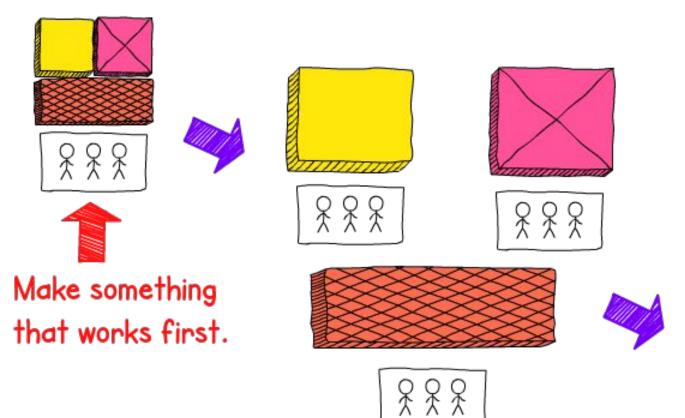


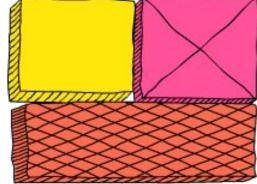
Estimate cost of delay?

"In XP, we don't divide and conquer. We conquer and divide. First we make something that works, then we bust that up and solve the little parts." Kent Beck



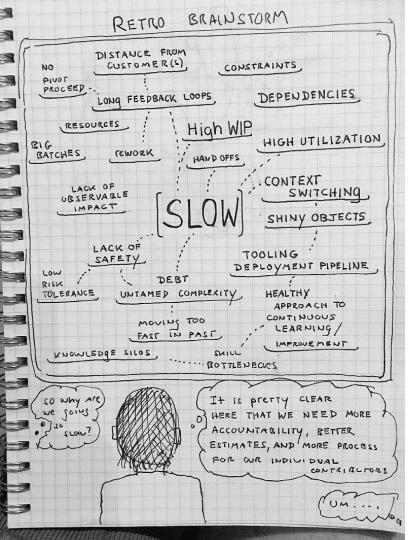
Divide and conquer leads to integration hell.





These problems aren't new.

Why are we still solving them?



System-level problems are hard to see. There's a tendency to default to "It must be a problem with individual accountability.

All the poor approaches defer pain.

Zombie projects defer having to say no.

Not making a decision means not choosing wrong.

Large launches defer feedback.

Integrating later feels good now.

"This approach feels better." faster

Given that... what tactics work?

These concepts are non-obvious.



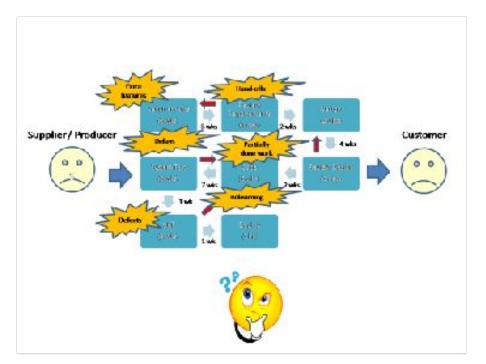
Catchy phrases (e.g., "zombie project", "conquer and divide")











Value stream mapping is old school and works.

"How do we feel?"



"Does this model accurately reflect the situation?"



























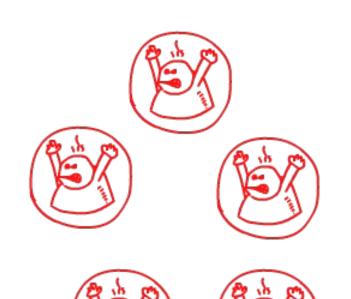




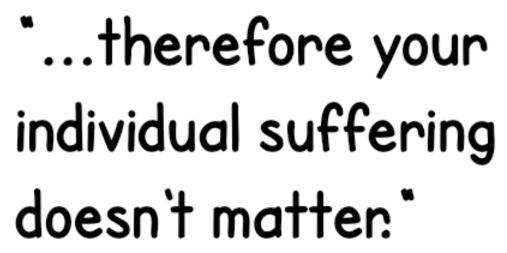
Warn people about "Early Pain".

Don't give up!

I don't want to end with the impression that the human experience of friction doesn't matter.







"Speed" in software product delivery





"Speed" in software product delivery



What feels fast (the human experience of speed)



"Speed" in software product delivery



What feels fast



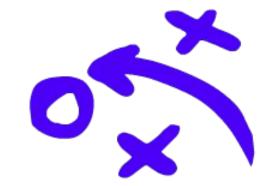
actually fast

(in terms of measurable outcomes)

Feeling fast is about removing friction.



Actually delivering fast is about designing how you deliver





First encountered Extreme Programming in 1999.



Joined ThoughtWorks in Feb 2001 (Buildmaster, Java developer, Agile /

Lean consultant)

(mostly Australia)



Joined Spotify in Feb 2015 (Agile Coach)



CruiseControl committer (retired)

@jchyip (twitter, medium, slideshare)
https://www.linkedin.com/in/jasonyip/
https://jchyip.blogspot.com (old blog)
jyip@spotify.com
https://www.spotifyjobs.com/