

# How to do

# Kick-Ass

## Software Development

 @svenpet



**Who expects to see some code?**

```
System.out.println  
["Sorry, you may leave now"];
```

**Who expects to learn a new  
methodology?**

There is no Kick-Ass manifesto!

---

*...and no certification*

**Who just wants to kick ass?**



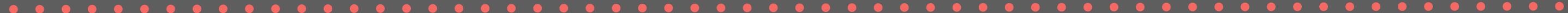
*Yes, that's me ;)*

**THIS IS YOUR TALK**

How to do kick ass development?

*Use* Java

*Use* Java



*...is not so important*



# Sven Peters

Atlassian Ambassador

[svenpet.com](http://svenpet.com)  
 @svenpet

*better software*

*less overhead*

*faster development*

*happy customer*

*happy developers*

**Agile**

*What's the state of* **Agile** *2014 ?*



**Compiles? == Ship it!**

# The Dark Manifesto of Agile Software Development

We are uncovering ~~better the only~~ ways of developing software by ~~doing it and helping~~ **teaching** others ~~do it~~.

Through this work we have come to value:

Individuals and interactions ~~over and not~~ processes and tools

Working software ~~over and not~~ comprehensive documentation

Customer collaboration ~~over and not~~ contract negotiation

Responding to change ~~over and not~~ following a plan

That is, ~~while since~~ there is **no** value in the items on the right, we value **only** the items on the left ~~more~~.

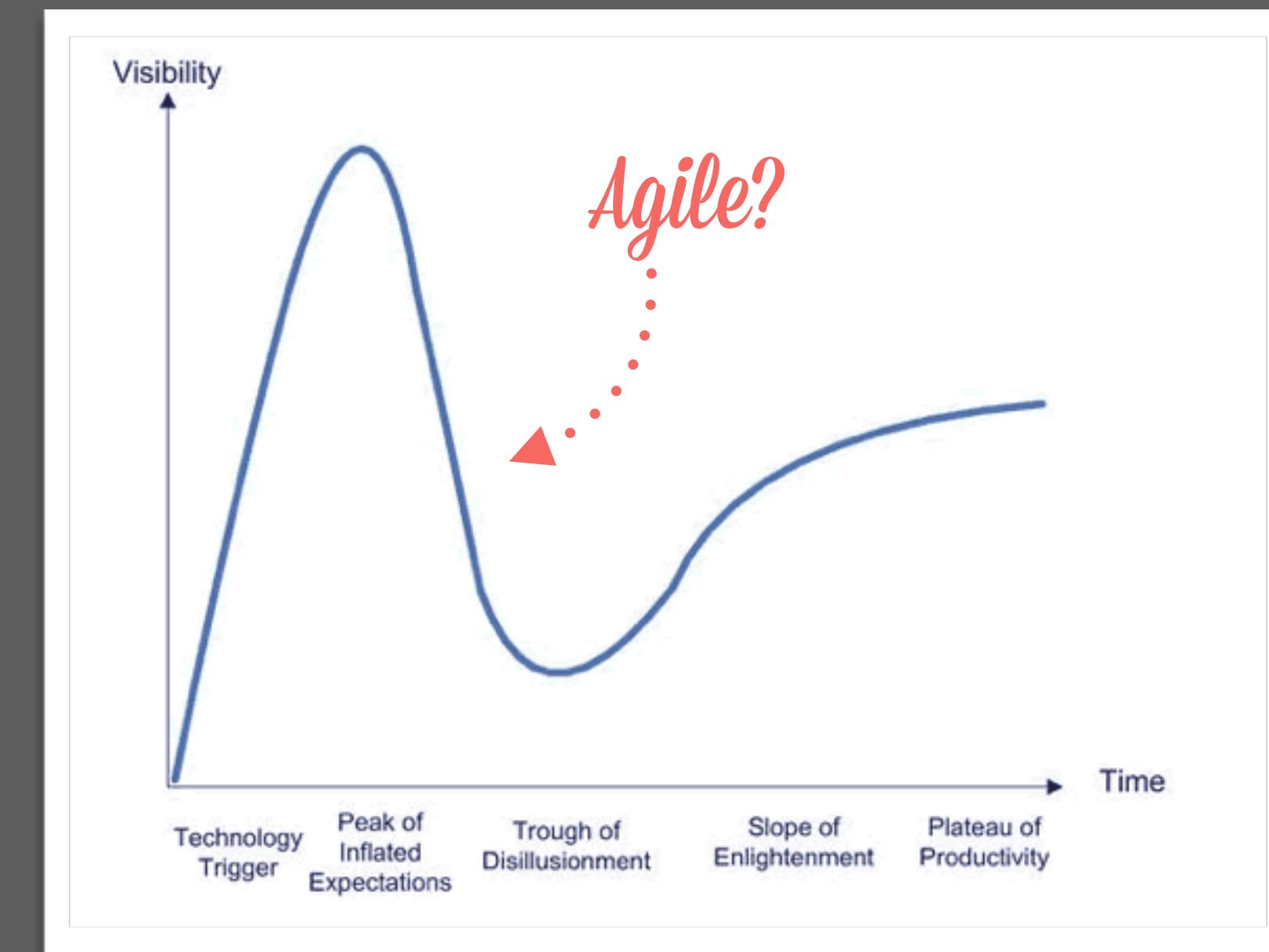
A high-contrast, black and white silhouette of a man's head and shoulders. He has a full, dark mustache and a voluminous, curly afro hairstyle. He is wearing a dark suit jacket over a light-colored shirt. In his right hand, he holds a large, metallic-looking key with a circular bow and a square cutout in the center.

Programming, Motherf\*\*ker  
Do you speak it?



Is Agile  
*dead?*

# The Gartner Hype Curve

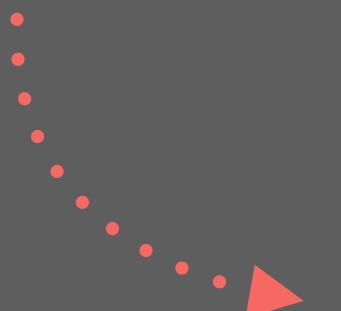


*We need*  
**some smart people!**

*Guru*



# Stop following the next guru



*and kick-ass again*



*Ass Kicking Topics*

► Deliver Kick-Ass Software

 One Kick-Ass Team

 Kick-Ass Collaboration

 Kick-Ass Automation



# *Deliver* Kick-Ass Software





# Building the right thing

*before*

*How do we know?*

Microsoft Kin





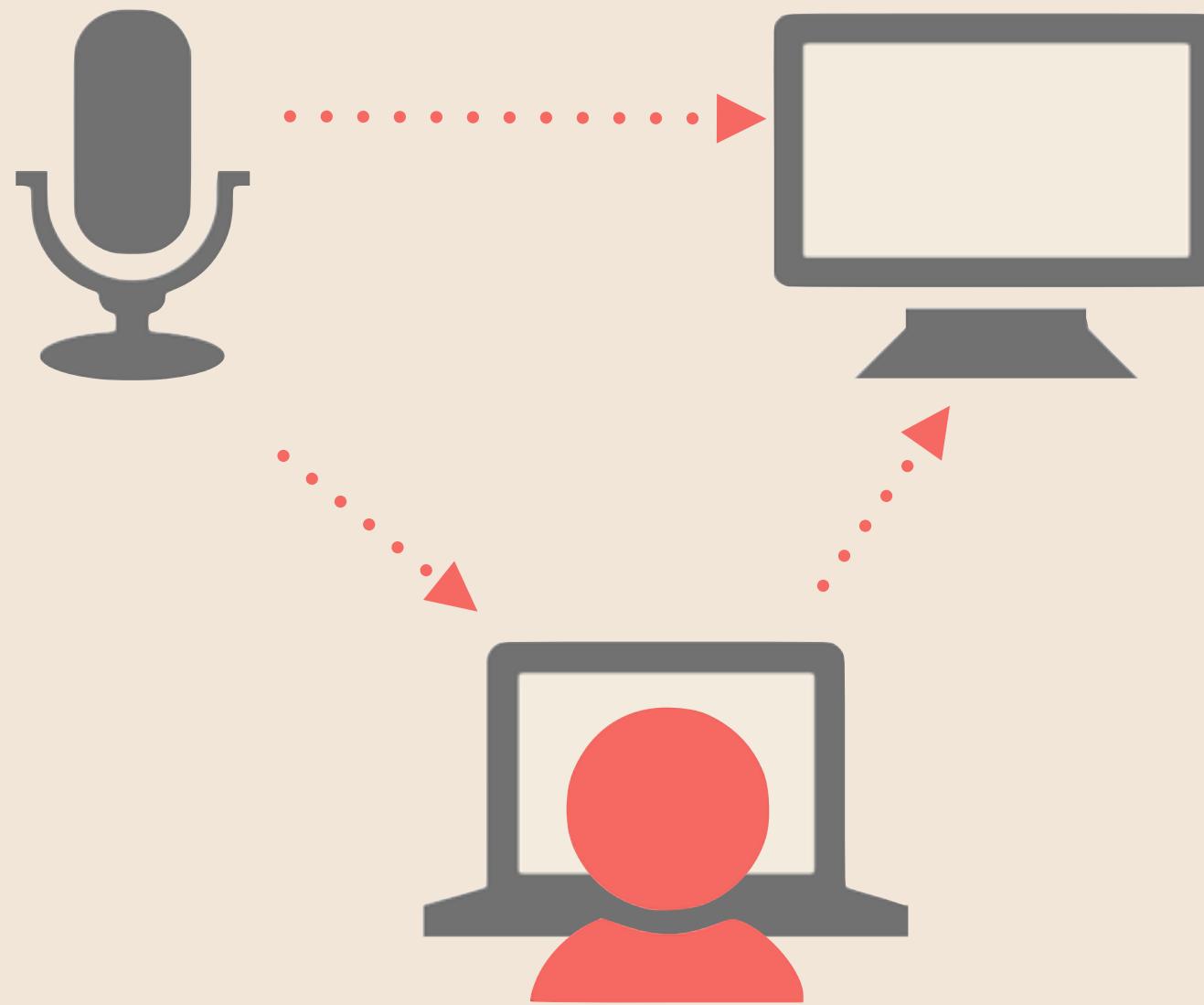
# Fake it

..... *til you* .....

# Make it



# *Speech-to-Text Experiment*

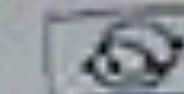
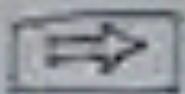
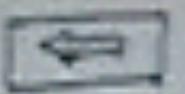




*even one step before that....*

# Paper Prototypes





Datum 한정일 2010-09-01, 2010-09-10입니다.

선택상태

( )

번호	제작일	제작자	제작상태	제작설명
11	00	2010-09-01	제작완료	제작완료
12	00	1000	제작완료	[2010-09-01] 제작완료
13	00	NW in India	제작완료	제작완료
14	00	4000	제작완료	[제작완료] 2010-09-01

선택상태

선택상태

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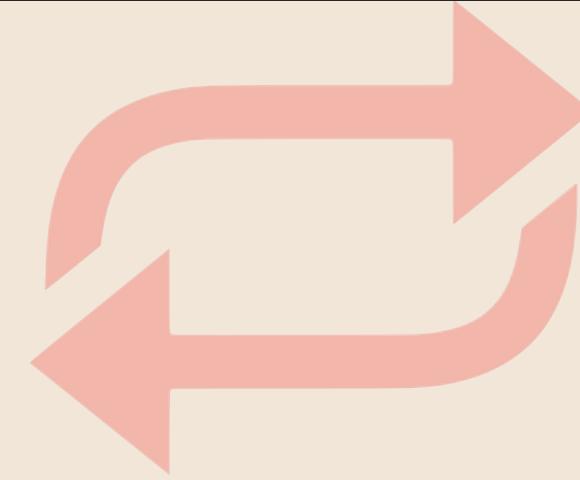
선택상태

선택상태



# Software

Construction Area - Improving Software



*Generate a kick-ass*  
**Feedback**  
**Experience**



How was your  
security experience  
today?

Heathrow

Easy to find

Make it simple

Fast to submit



GOT FEEDBACK?



### Opt In for a Better JIRA Agile

Help us make JIRA Agile better! We're continuously working to optimise the JIRA Agile experience for the needs of users like you. Anonymous usage data helps us do just that.

Would you like to turn on the collection of anonymous usage data for this JIRA Agile instance? View details about information that will be collected, read our [Privacy Policy](#) for the data and our [End User Agreement](#).

[Yes, please](#)[No, thanks](#)

# JIRA Agile

## Getting Started with JIRA Agile

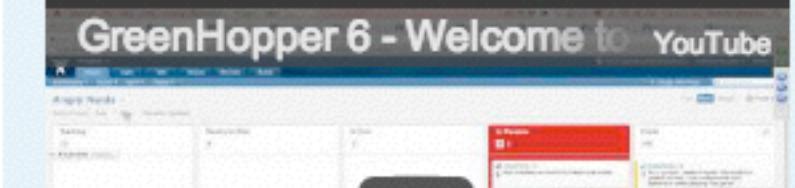
JIRA Agile has two primary modes, **Kanban** for constraint-based task management, and **Scrum** for iteration planning. If you're not sure which one is right for your needs you can check out the learning links we've provided.

[Scrum](#)[Kanban](#)[DIY](#)

### What's New in JIRA Agile

We're excited to introduce Epics, a new feature for Scrum teams that enables them to organise a growing backlog. Epics represent big feature areas that the team will break down into stories and complete over a number of sprints. For full details [read the release blog](#).

Follow our progress and stay in the loop.

[JIRA Agile Welcome Video](#)



## Got Feedback?



Opt In for

Help us make that.

Would you like to help us do just that?

Yes, please!

Rate the page \*  😊 Awesome  😃 Good  😐 Meh!  😞 Bad  😢 Horrible

What do you like? \*

Good tools, but this talk doesn't kick ass at all!

What needs to be improved? \*

Add more jokes!

Upload a screenshot

 Browse

Name

Freddy Eedback

Email

f.eedback@complain.com

Submit

Cancel



# Easy to find

## Opt In for Feedback

Help us make that.

Would you like to share data and our

Yes, please

## Got Feedback?

Rate the page \*  😊 Awesome  😃 Good  😐 Meh!  😞 Bad  😢 Horrible

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Upload a screenshot

Browse

Name

Freddy Eedback

Get in touch

Email

f.eedback@complain.com

Submit

Cancel

# Make it simple

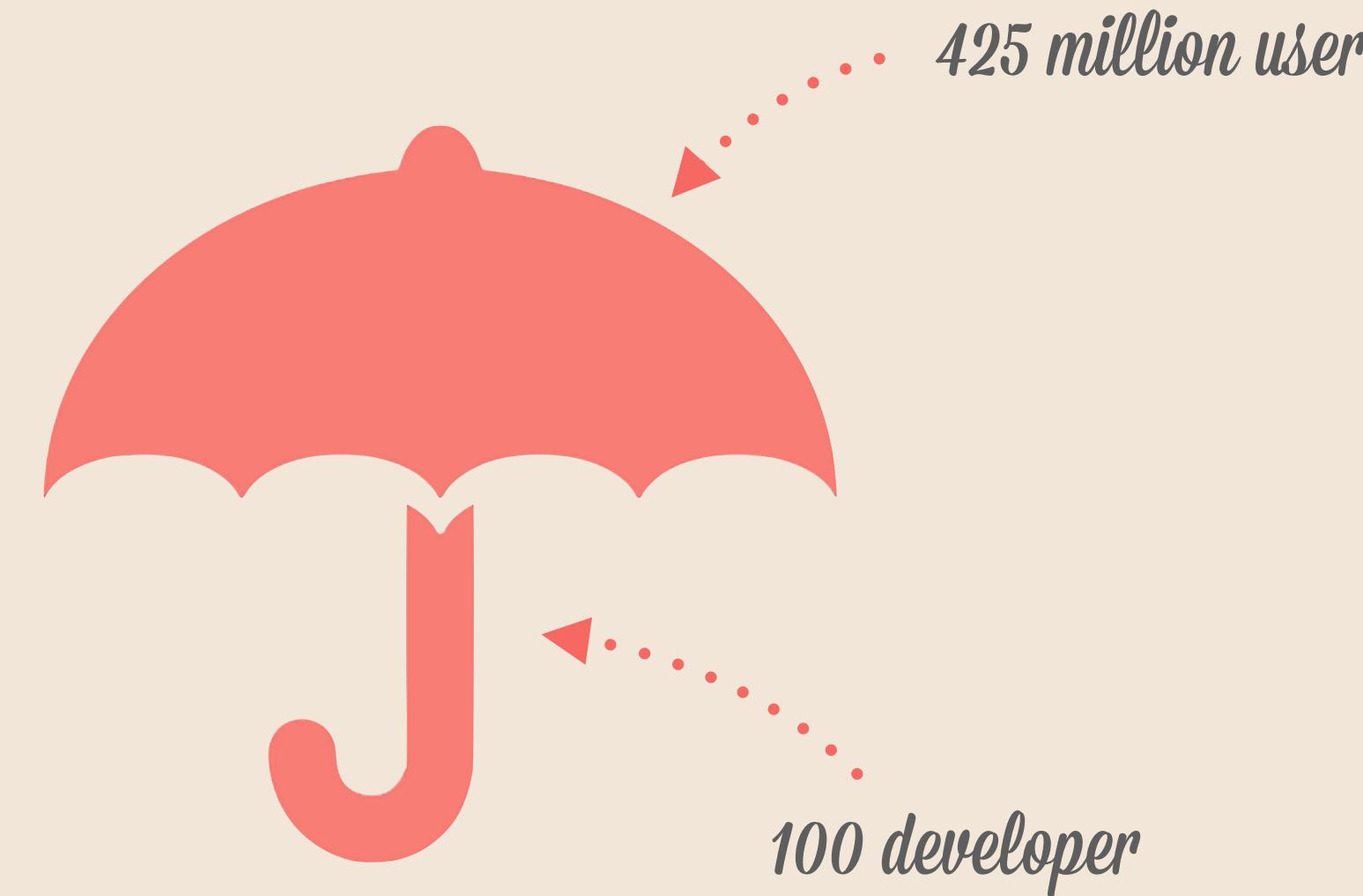
# Fast to submit

Protect  
your Developers





# The Sh\*t umbrella



*425 million user*

*100 developer*



We're not doing



**Everyone  
— On The —  
Front Line**





*Feedback*



**Close the Loop**

and get personal

# Developers ~~~~~ *on* ~~~ Support





Care about your customers!  
Have an effective feedback loop



Keep improving!



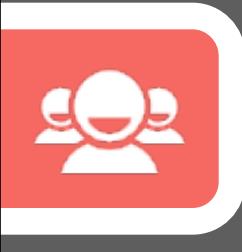
# One Kick-Ass Team





# *Different* Roles Responsibilities





*The Problems*

# Bottlenecks : Accountability : Scalability

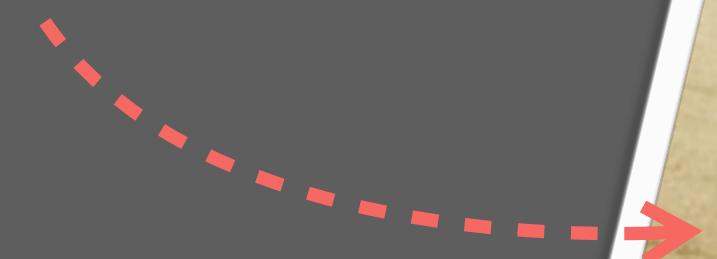


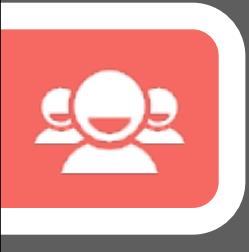


Developer  
on  
Test



*So the developers are  
doing all the work?*





QA

# Qual-i-ty As-sis-tance [kwol-i-tee] [uh-sis-tuh ns]

Quality is everybody's responsibility. QA employees help and train developers to become better tester, testing the more complicated stuff, creating test data, investigating in new test tools and working on test strategies.

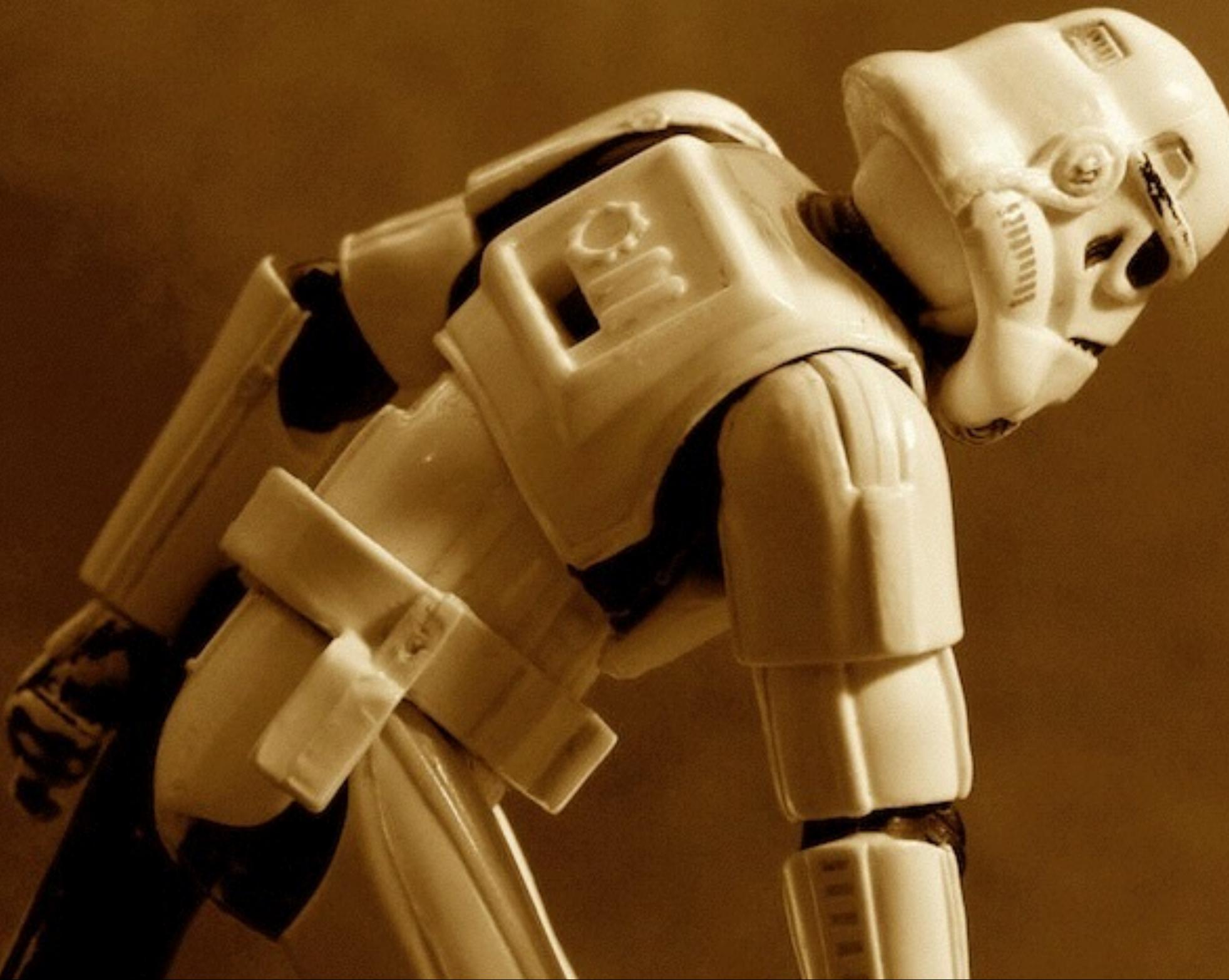


# 6 *Tips*

for kick-ass DoTing .....

# 1. Training





## 2. Pairing



# 3. Blitz Test

## 4. Test Recipe\*



\* advanced doting

# 5. Split Sessions\*



\* advanced doting

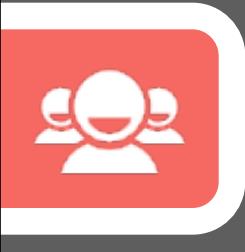


# 6. Bug Hunter\*

\* advanced doting

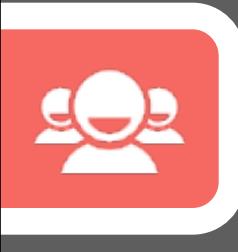


*Quality* is everybody's responsibility



Developers  
are doing

*Design*



Developers  
are doing  
*Design*

The screenshot shows the homepage of Chestertourist.com. At the top, there's a navigation bar with links like Home, Hotels, Guest Houses, Chester Events, Walking Chester, Parking, Shopping, Business, Chester Pubs, Restaurants, Tickets, Chester Guid, Community, and Contact Us. Below the navigation is a banner for "Hotels in the Chester Area" featuring "At Peckforton Castle". To the left, there's a sidebar with a "City Centre Map" showing "Peckforton Castle" and "Nunsmere Hall". The main content area has several sections: "Hotels in Chester", "Guesthouses in Chester", "Travel Hotels in Chester", "Hotels in the Chester Area", "Guesthouses in the Chester Area", "Hotels in Liverpool", "Apartments - Self Catering", "Inns", "Youth Hostel", "Camping", "Property", "Motorhome Hire", "Shopping Hotels", "Spa Hotels", and "EEE Budget Accommodation". A "Chester Hotel Offers" section includes links for "Deal Deals", "4 & 5 Star Hotels", "Big Savings", "Disabled Access", "10 Reasons to Love", and "Budget Beds". At the bottom, there's a table for "Day Luggage Storage | Hotel Selector | Hotelclub Special Offers" with columns for "1/2MAN", "2 CRATE", "DATE", "500", "1,426", "1,426", "50.00", "713.00", "40.00", "40.00", and "0.00".



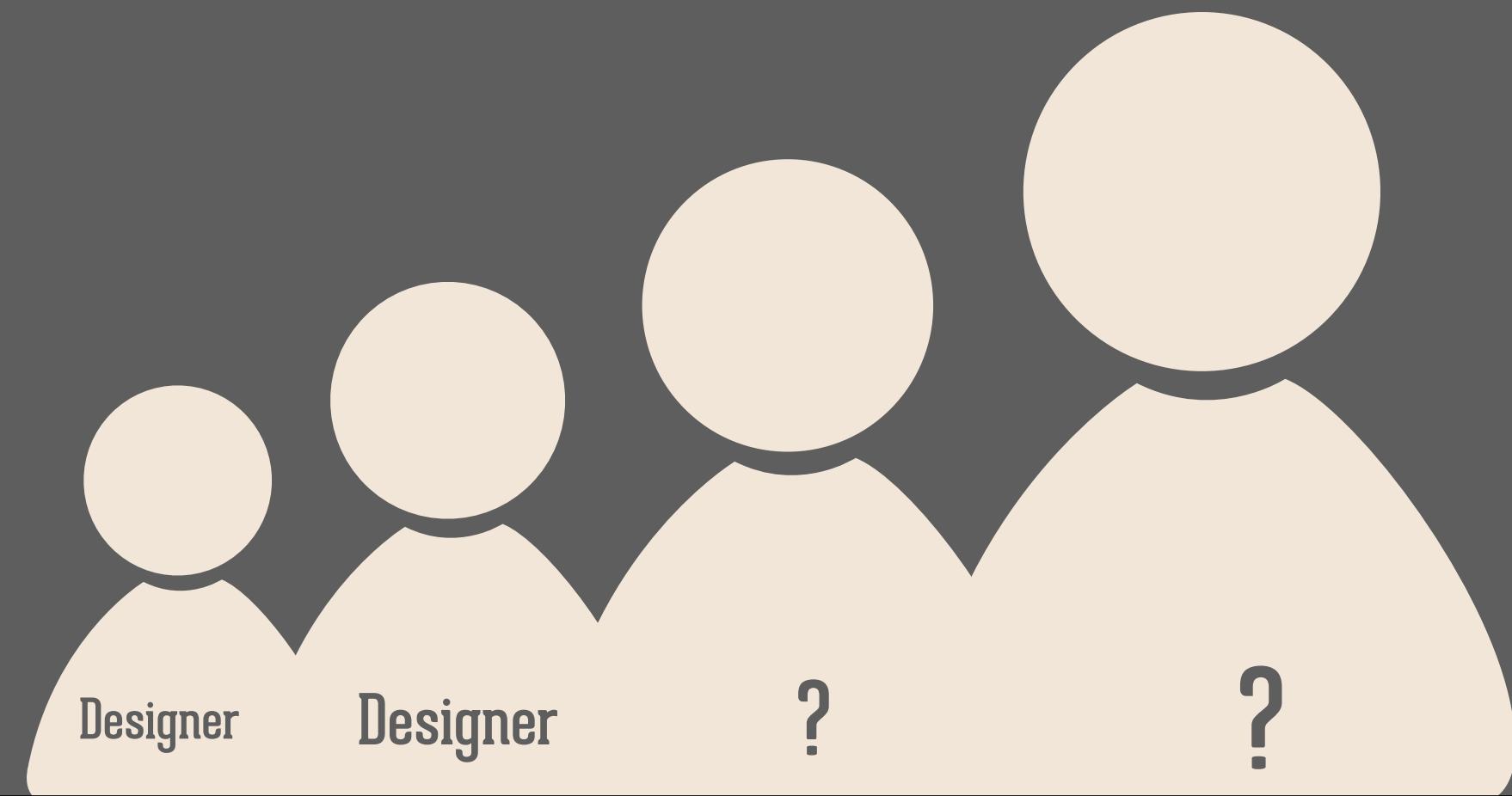
# *Why* should we have designers?

▼ Atlassian Menu Gallery

The screenshot shows a search interface with the word "work" typed into a field. Below the search bar, a dropdown menu is open, listing "Plugins", "General Configuration", "Workflow Cache Limi...", "Issues", "Workflows", "Workflow Schemes", "Screens workflow transitions", and "System". To the right of the search interface, there are four small thumbnail images representing different menu items or configurations. The thumbnails feature various icons such as a blue square, a film strip, and a document.

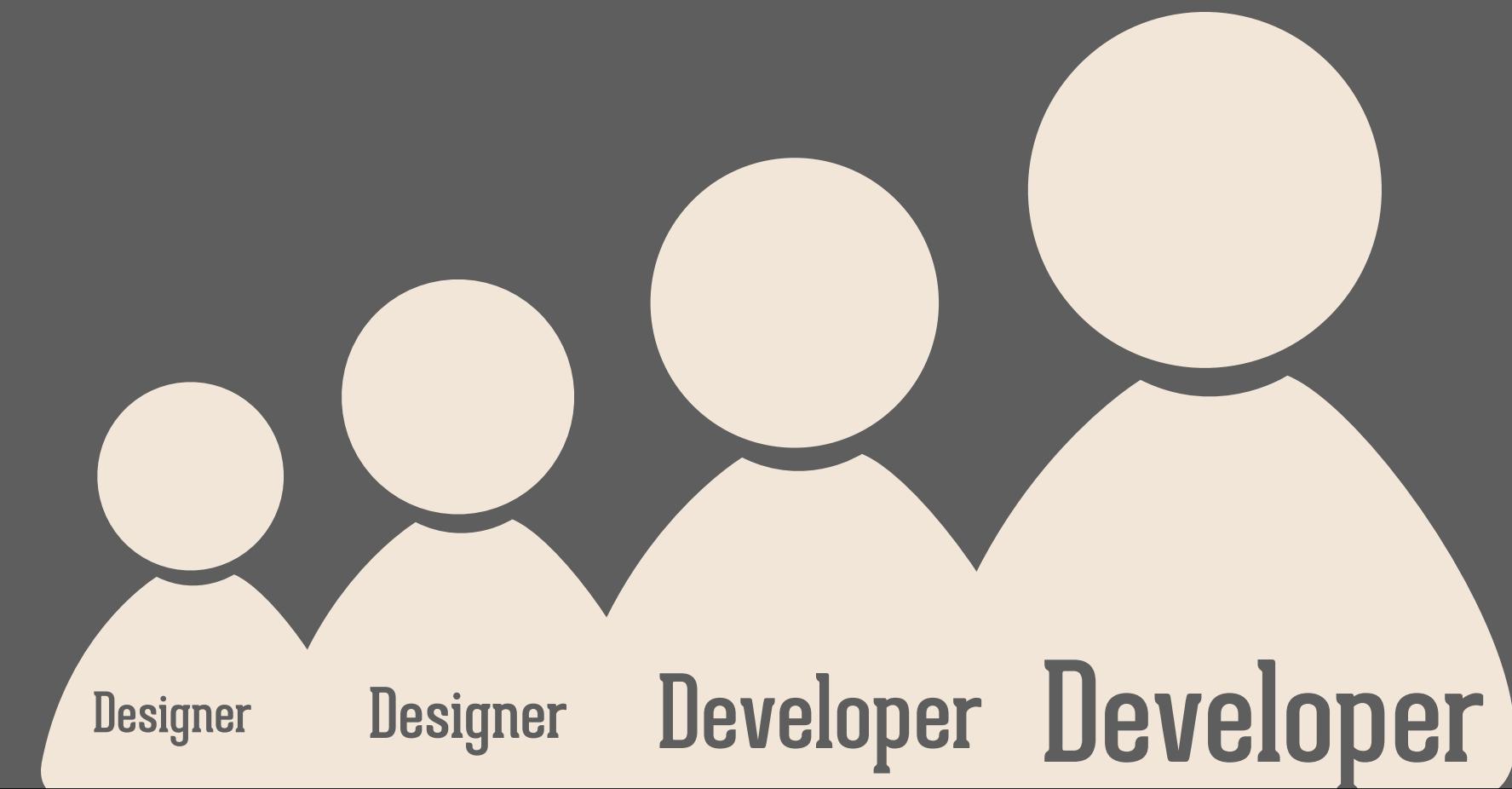


# *Scaling* Designers?



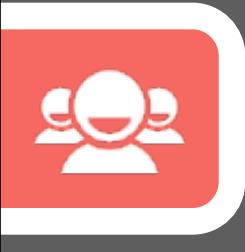


*Scaling* Designers?  
*Use* Developers FTW!





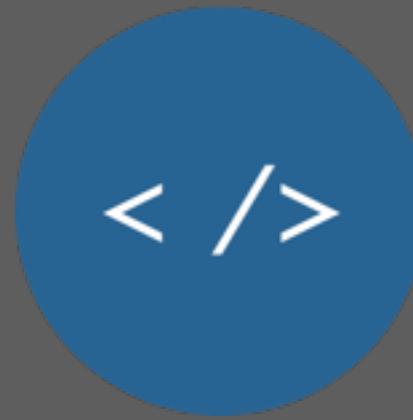
Our developers need some  
*Design* guidance!



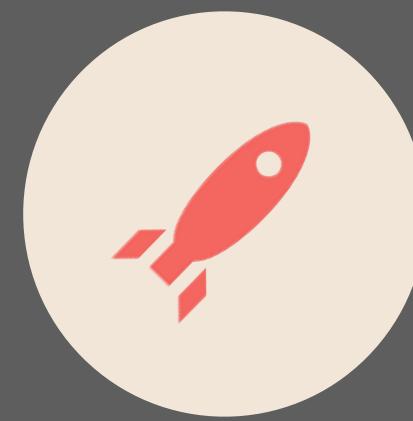
# Design Guidelines



*Just a few controls  
Simple rules*



*Tools to test design*



*Kick-Ass*



# *Design* Workshop

## for Developers





Developers  
Designers  *are*

# Designers

# Developers



*removing friction*



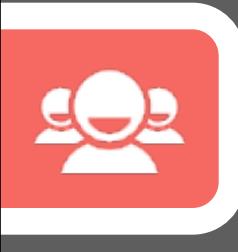
# Developers

*are*

# Designers

*are*

*Designer in code*



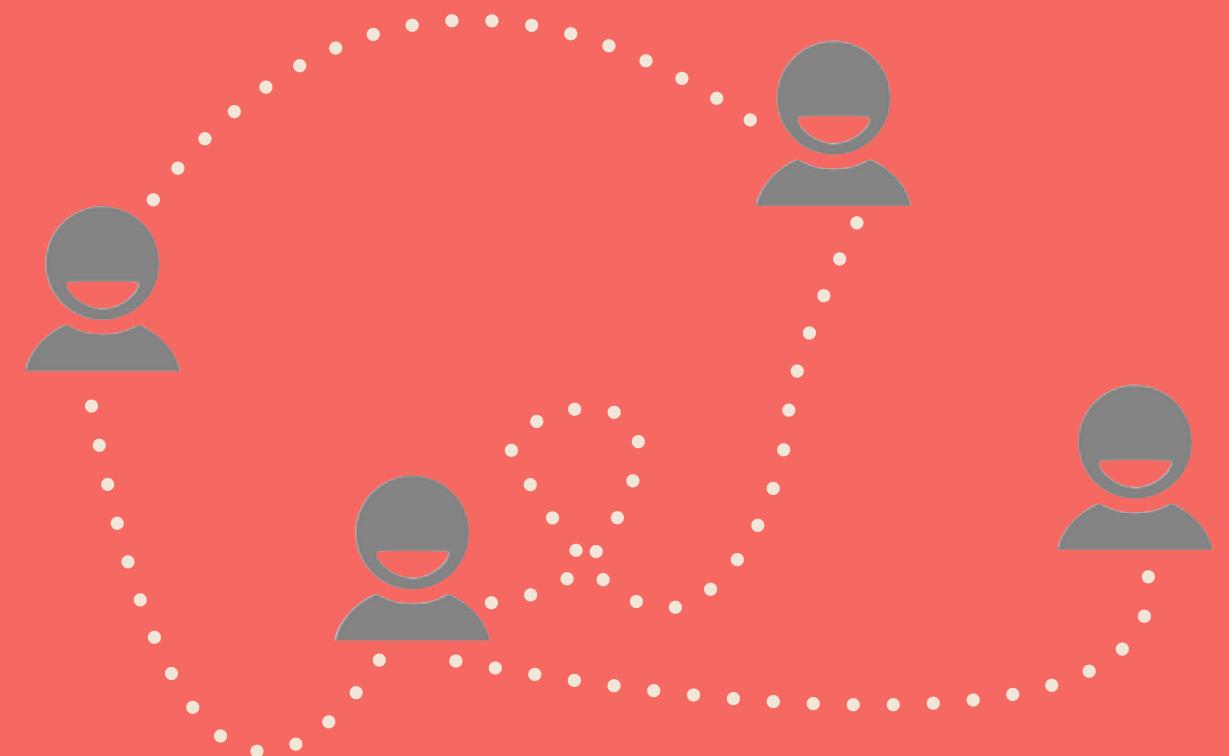
Department barriers slows you down!  
Work together as **one team!**



Keep improving!



# Kick-Ass *collaboration*



A silhouette of a cowboy wearing a hat and vest, riding a horse. The cowboy is looking towards the right. The horse is facing right, with its head turned slightly back. The background is a bright, overexposed yellow.

# Lonesome Cowboy Coder



The **trouble** starts  
with the **team**







# Traffic Rules

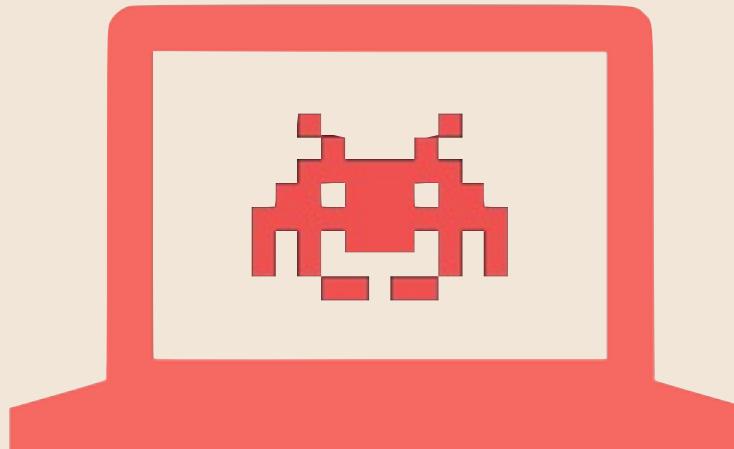


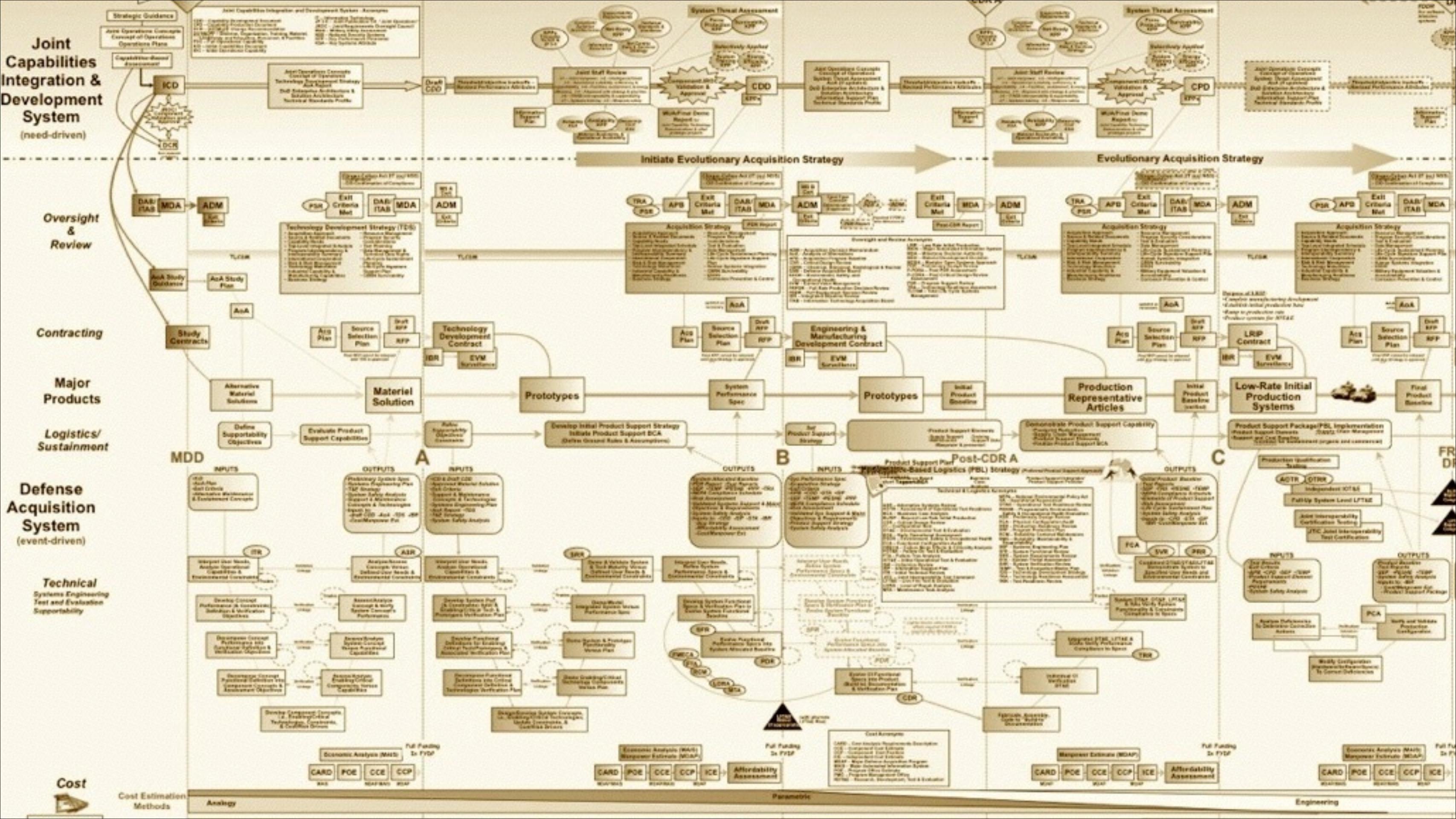
are protecting us from accidents



# Development Rules

are protecting us from making mistakes







**BRANCH**

**PULL**

**MERGE**



# A branch

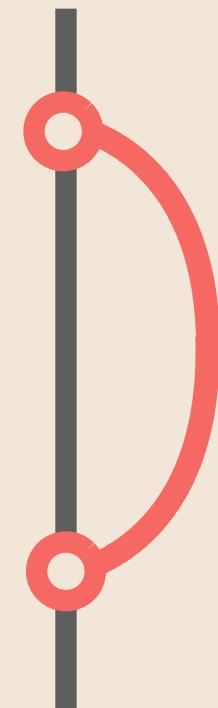
for every task





# Branches

have short lives

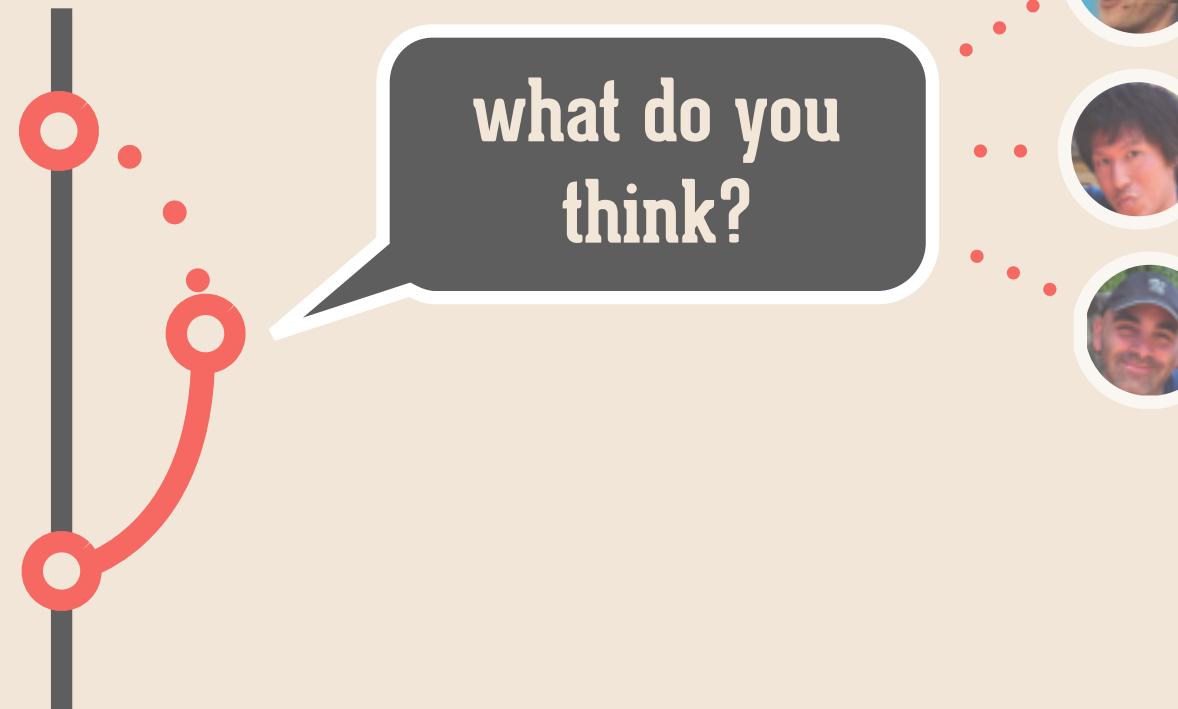


average 2 days



we use

# Pull Requests





feel better

better quality

blame

learn

★ ANDY

★ JULIE

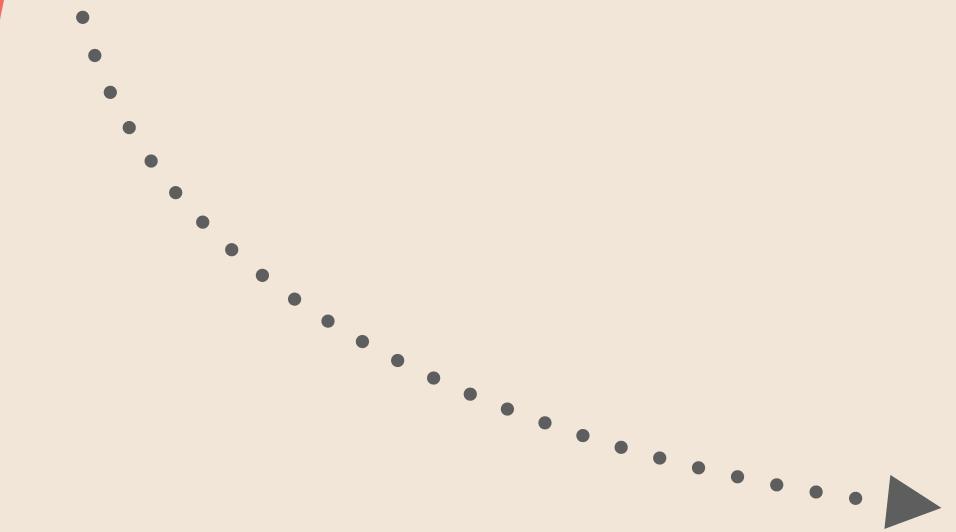
✗ STEVE

★ LYNNE

Why do you want to discuss  
your code changes?



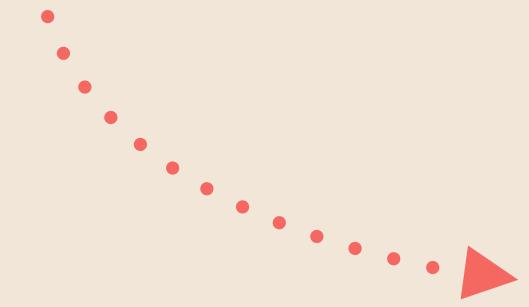
fast approvals  2+



moving fast 



# Git With T For Team



*Tomorrow 4pm, Room 105*

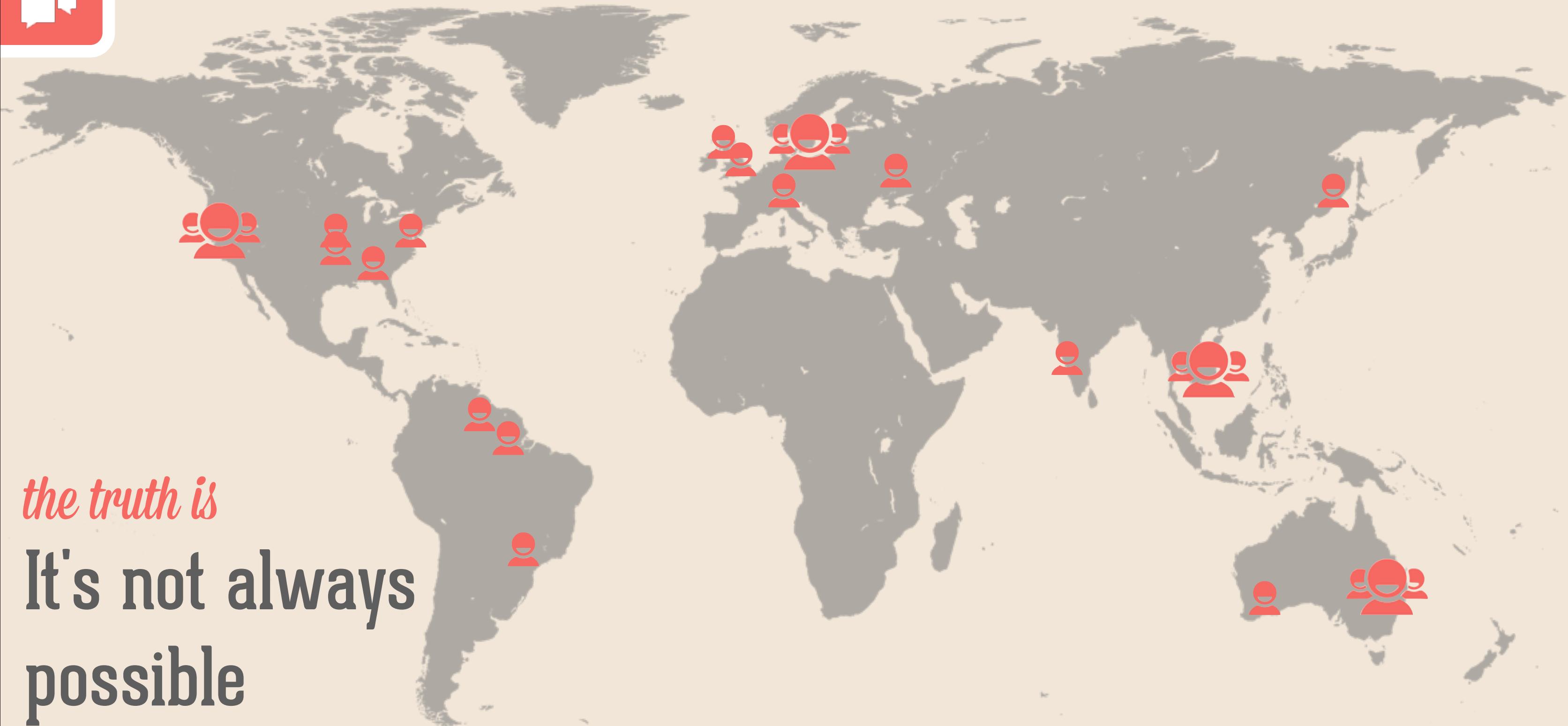


*we prefer*  
**Collocated  
Teams**





*the truth is*  
**It's not always  
possible**





# Where do you work best?

*it depends*



*...in the office?*



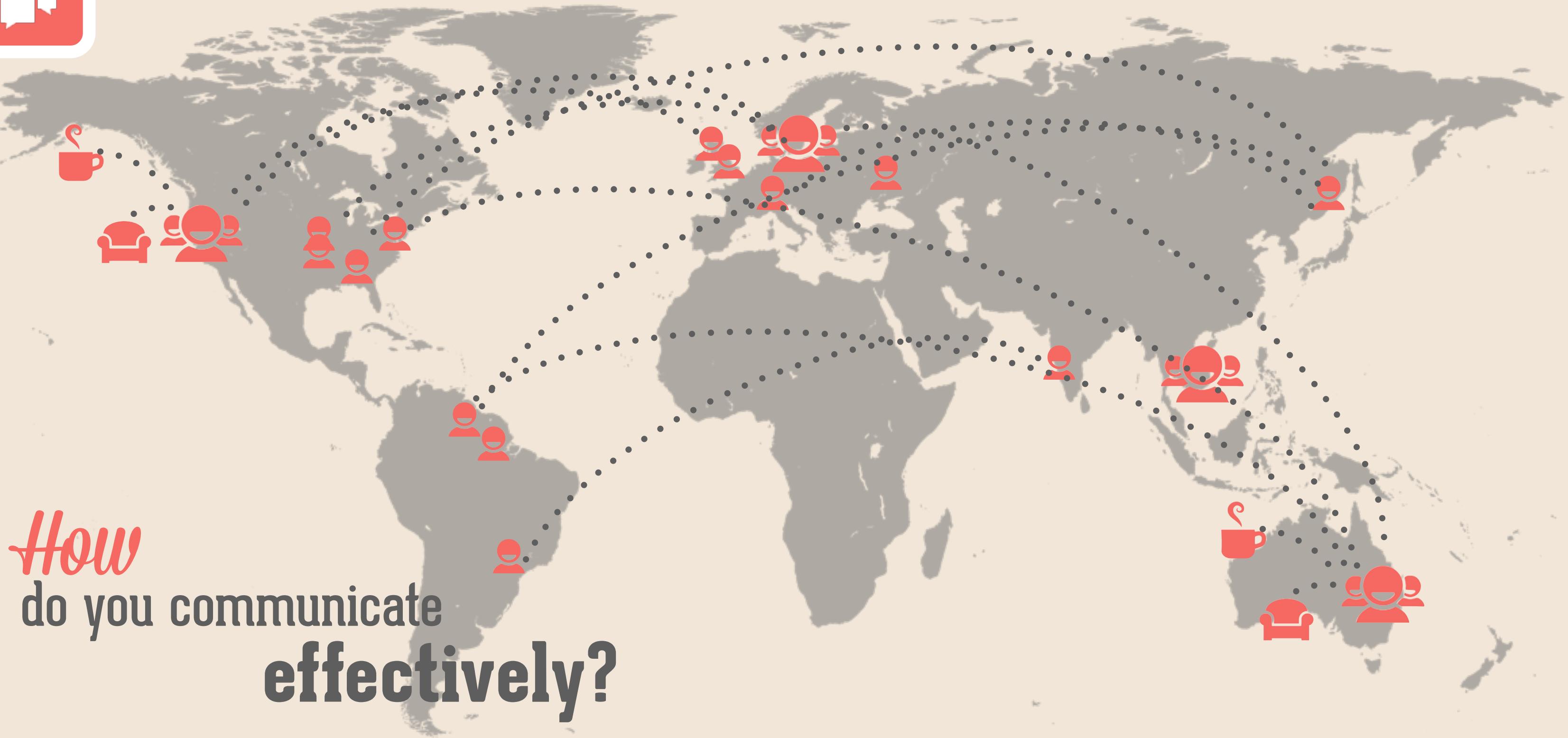
*...in the coffee bar next door?*



*...on your couch at home?*



*How*  
do you communicate  
**effectively?**





*offline*

*one to many*



Emails

*asynchronous*

*add people*



Are you  
crazy?





too much

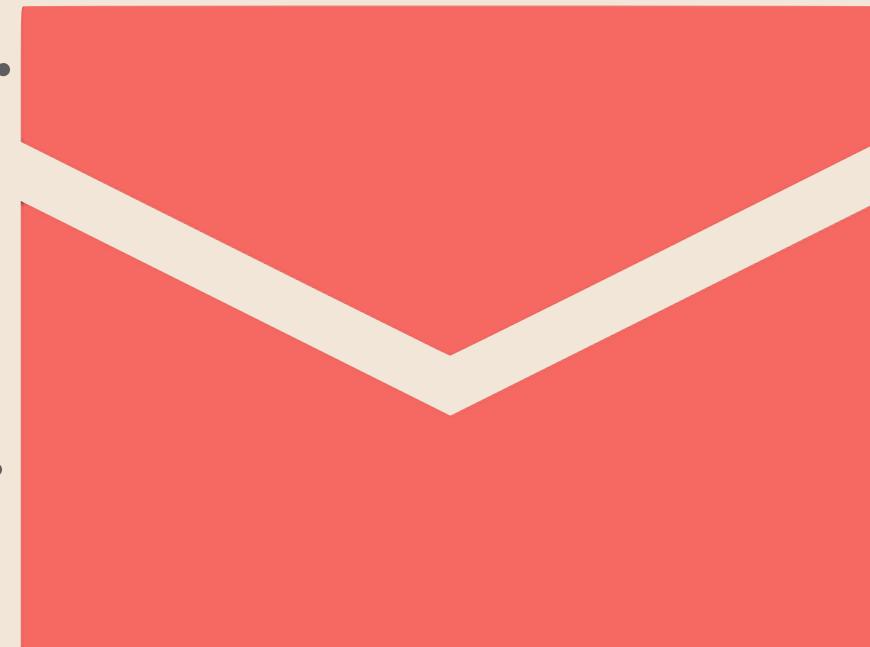




*are bad for conversations*

# Emails

*lots of spam*



*often too long*

*..... needs an action*

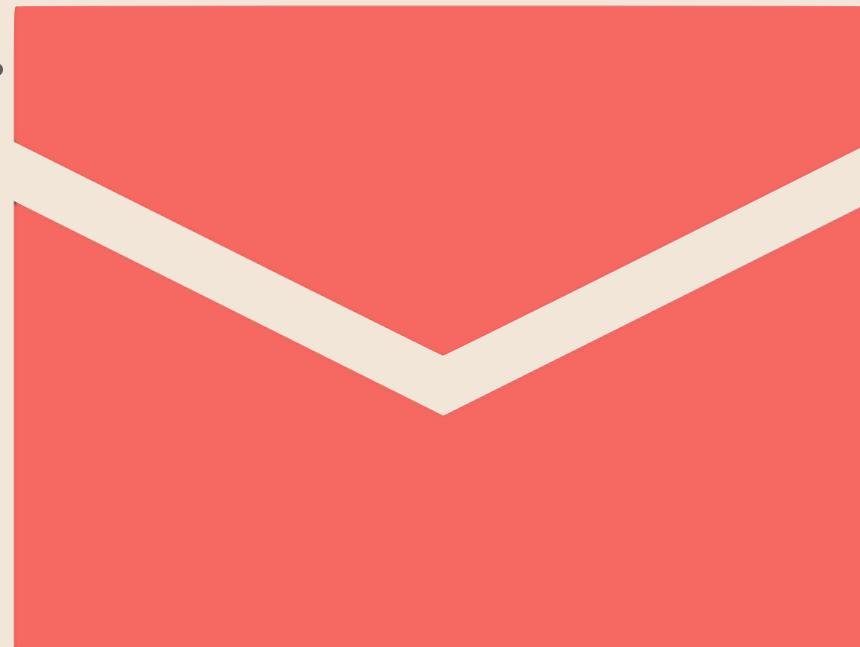
*Problems*



*are bad for conversations*

.....  
.....  
.....  
.....

~~Emails~~



*lots of spam*

.....

*often too long*

.....  
.....  
.....  
.....

*..... needs an action*

**Problems**



Who uses  
*Chat*?





Confluence  
Developer

Design Team

Enterprise  
Discussions

Beer Drinkers

Just the conversations you need to **kick ass**

*Chat* Rooms



Awesome for **cross** functional projects

# Temporary *Chat* Rooms



Designer



Marketeer



HR



Web-Dev



Management



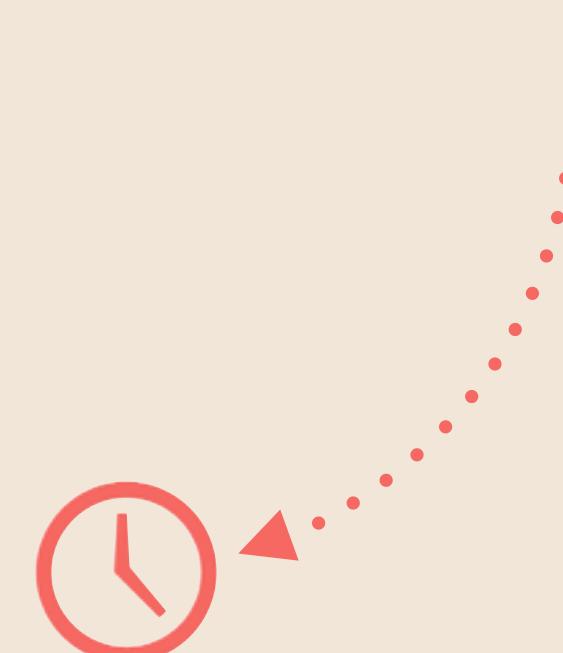
is great for **remote** conversations  
*...and local!*



People can stay in the **zone**



is great for **different** timezones



The chat records all **conversations** that happened during the **night**

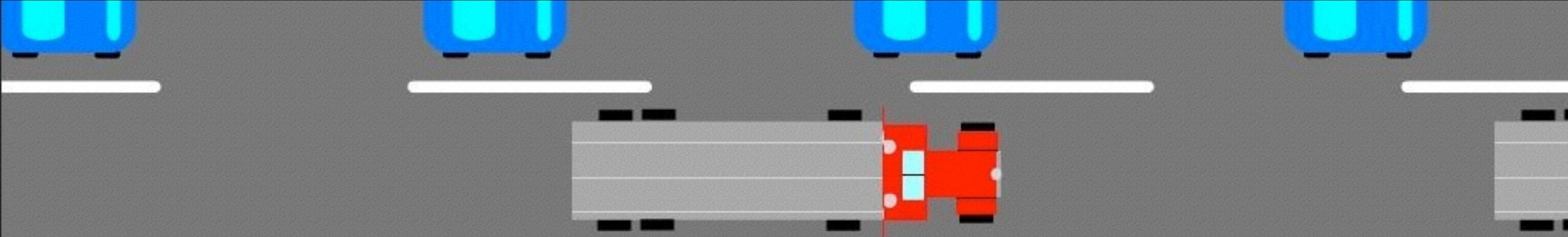


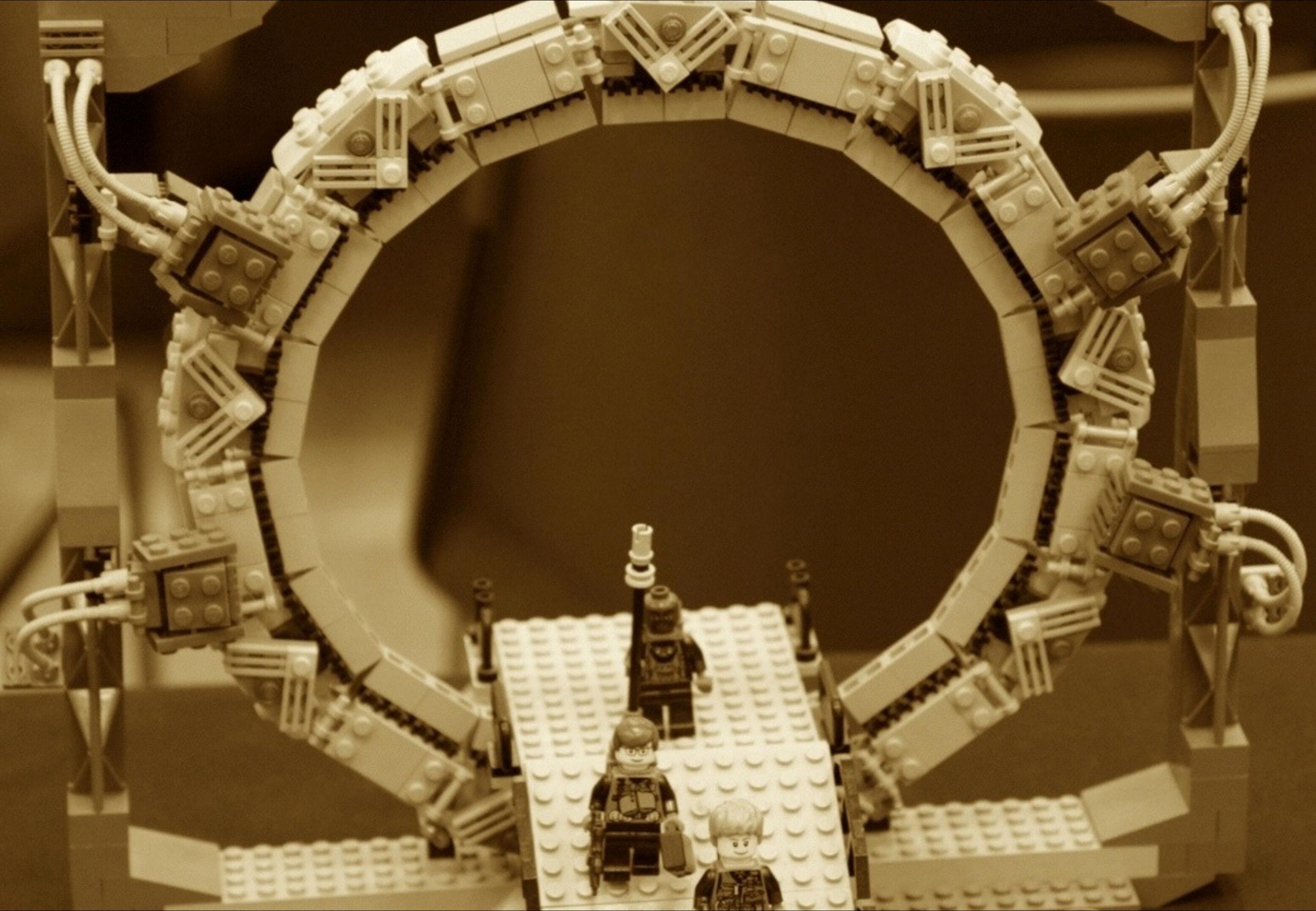
can **pull** people into the conversation  
*with ease*



Just @mention someone







# We built portals!





Remove collaboration **friction**.

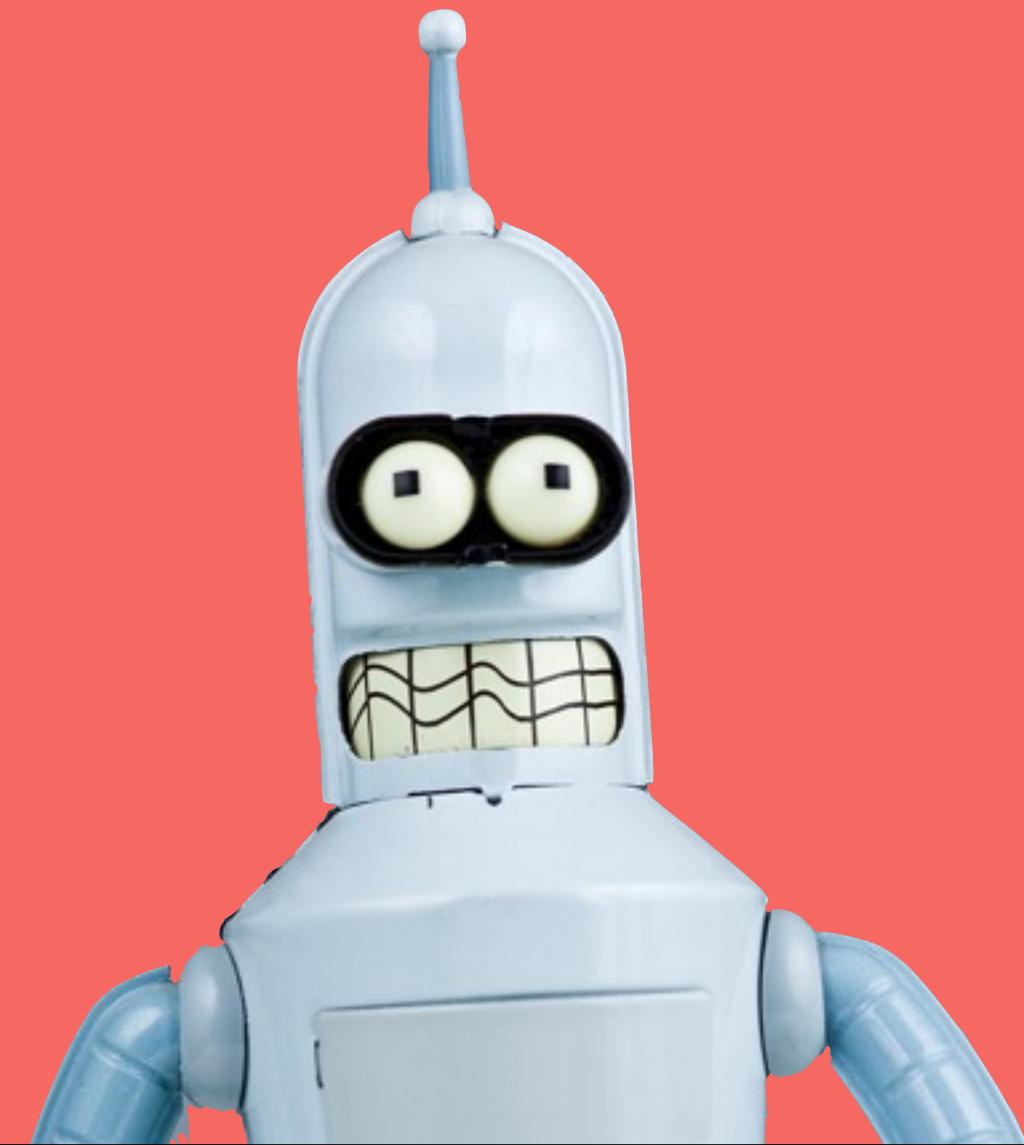
Easy workflows -> fast development



Keep improving!

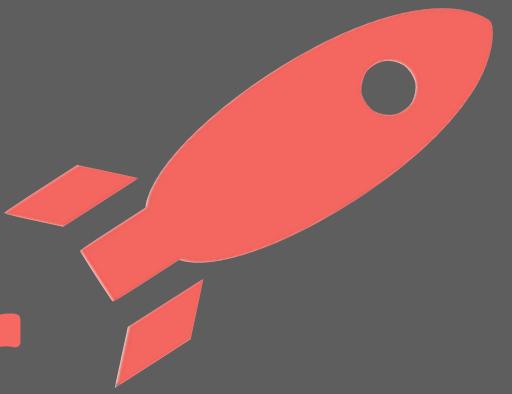


# Kick-Ass *Automation*





We're helping people  
to be **faster**



*automating their work*



How much time do you spend a week  
to **automate** your software development?





*Who* is doing continuous integration?



*Who*  
is doing **kick-ass** continuous integration





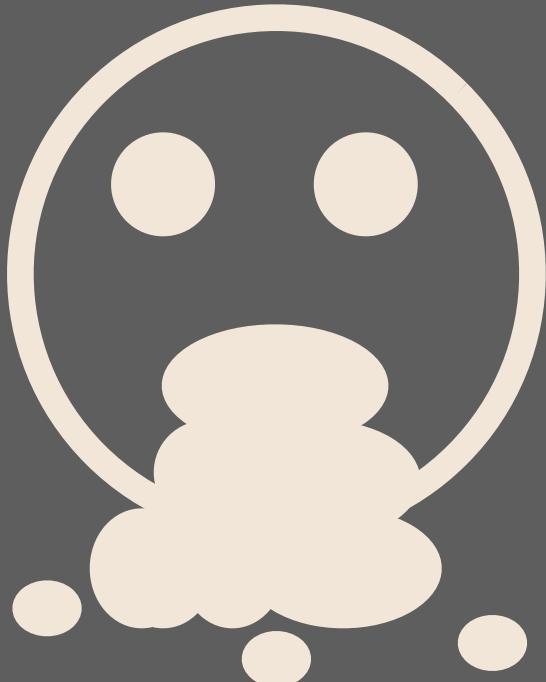
# Our builds sucked

*took too long*

*were too complicated*

*were unstable*

*missed a concept*



# Fail Fast

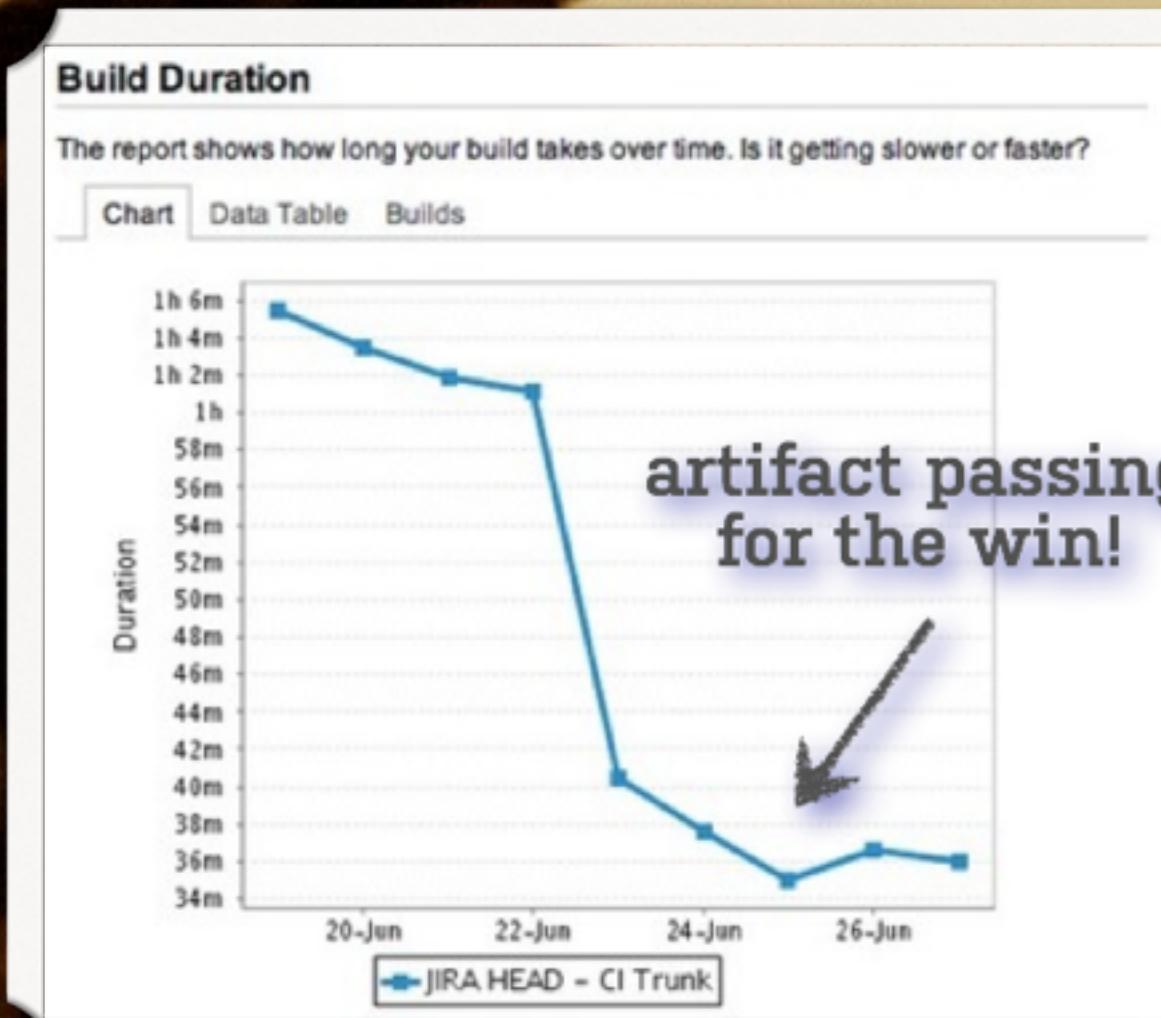


# *4 things* how to tame monster builds

and kick-ass again



# 1. Pass the artifact





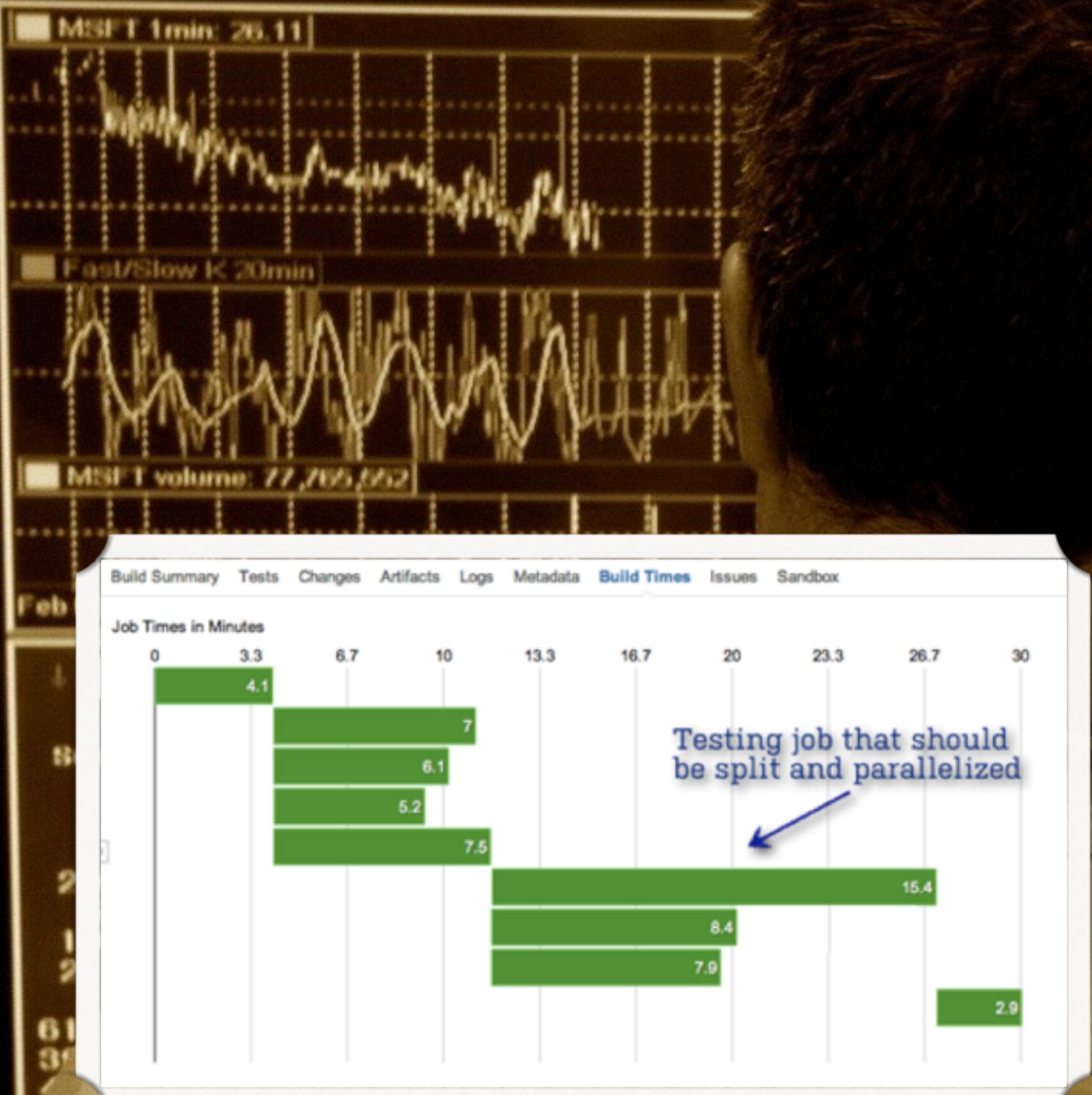
## 2. Parallelize Tests

### 3. Have a build strategy

performance tests ←....  
*nightly builds*

platform tests ←....  
*less frequent (every hour)*

building + unit & UI tests ←....  
*every check in*



## 4. Look at your stats!



*Care about automation*

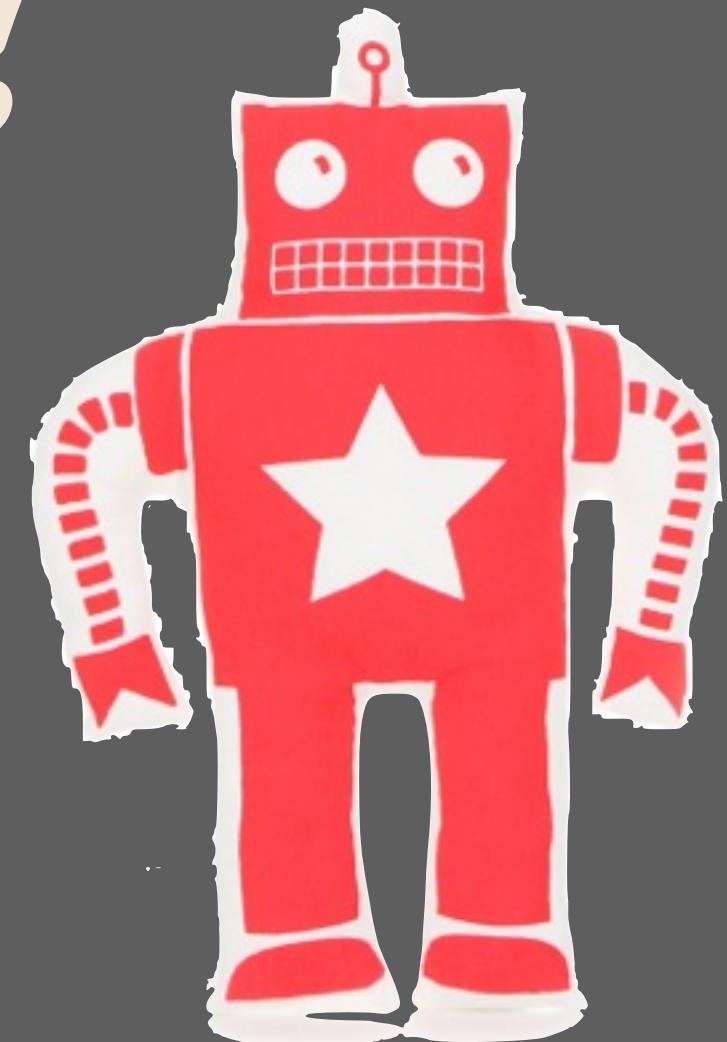
Faster builds >>

.....

less task switching



*More automation  
awesomeness!*





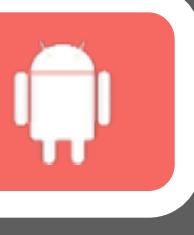
# Flakey Test Detector





# Wallboards





# Freud Bot



Freud Bot

! You should use a variable here instead of `#326CA6`. I suggest that you use a variable of similar colour:

`@globalHeaderPrimaryActionFallbackColor` `@globalHeaderPrimaryActionBottomColor` `@primaryLinkColor` `@primaryHighlightColor`  
`@globalHeaderTopColor`



```
+ 135      }
+ 136
+ 137 a.lozenge {
+ 138   background-color: #d0dfee;
+ 139   border-color: #d0dfee;
+ 140   .transition(~"color 0.2s, background-color 0.2s");
+ 141
+ 142   &:hover {
+ 143     text-decoration: none;
+ 144     color: @invertedBodyTextColor;
+ 145     background-color: #326ca6;
```



Freud Bot

! You should use a variable here instead of `#326CA6`. I suggest that you use a variable of similar colour:

`@globalHeaderPrimaryActionFallbackColor` `@globalHeaderPrimaryActionBottomColor` `@primaryLinkColor` `@primaryHighlightColor`  
`@globalHeaderTopColor`

Reply · Delete · 8 mins ago

```
+ 146   cursor: pointer;
+ 147
+ 148 }
+ 149 }
```

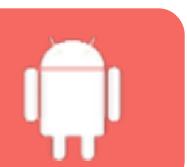
View diff



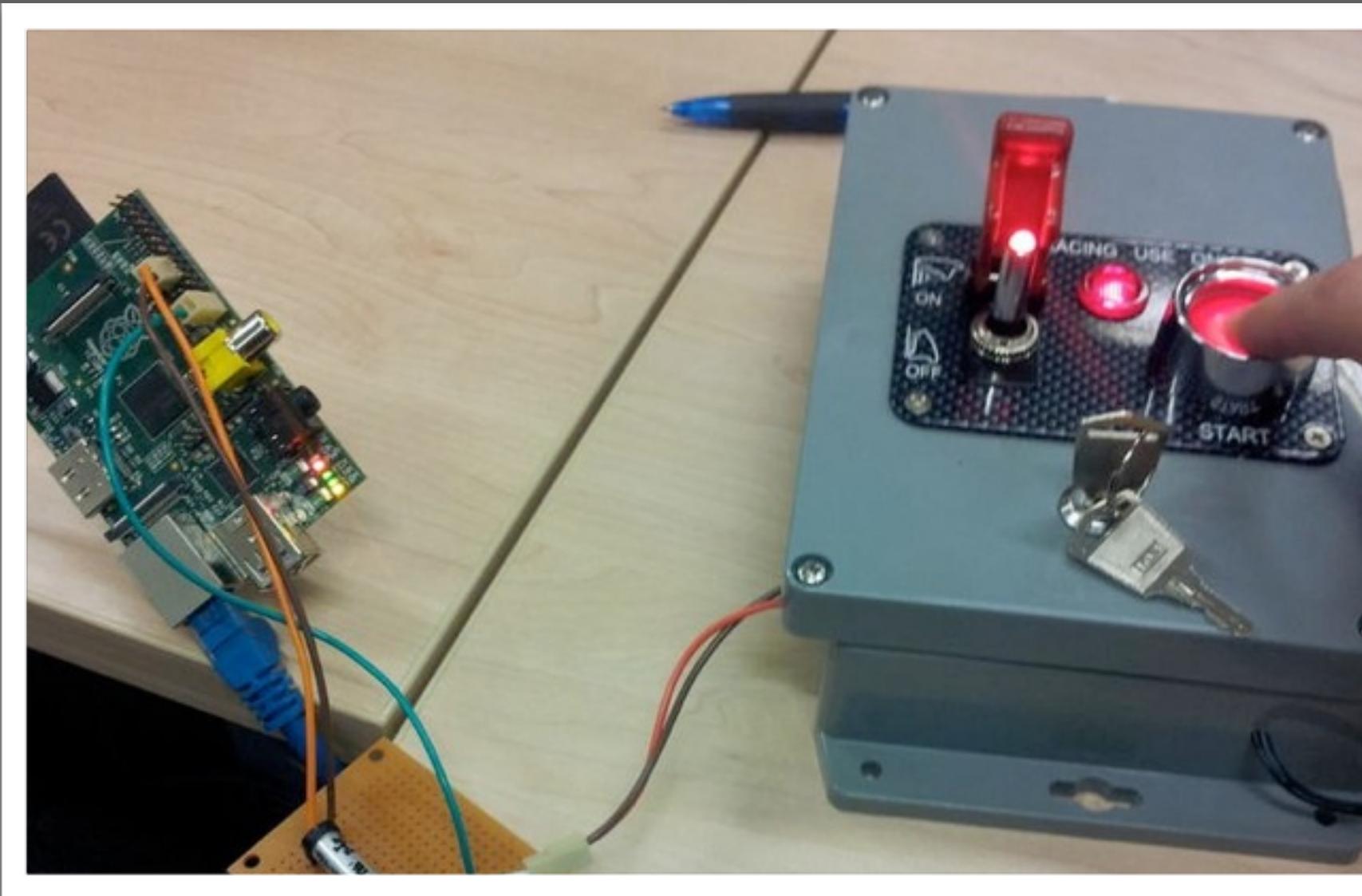
Use your skills to automate things!



Keep improving!



# Release Button



*single push deployment*



## ► Deliver Kick-Ass Software



One Kick-Ass Team



Kick-Ass Collaboration



Kick-Ass Automation

# Kick-Ass Software Development



**Kick-Ass** Software Development

**Kick-Ass** customers

**Kick-Ass** team

**Kick-Ass** dev speed

**Kick-Ass** quality

**Kick-Ass** scale

**Kick-Ass** Software Development

**Kick-Ass** customers

**Kick-Ass** team

**Kick-Ass** quality

**Kick-Ass** dev speed

**Kick-Ass** scale



Is Agile  
*dead?*

*Be excellent  
in everything you do*



# *Managers* are humans, too!



... ► *harder*

... ► *easier*

*Share*  
success & failures



*Build* a kick-ass culture





Step out of your **comfort zone**  
and be more *awesome*



Did you  
kick ass  
today?



*Thanks!*

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