



let's move
the **java** world

How To Do Kick-Ass Software Development

Sven Peters | Atlassian



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 is here for the beer?

Cheers



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

 [@svenpet](https://twitter.com/svenpet)

better software

less overhead

faster development

happy customer

happy developers

Agile

What's the state of

Agile

2013 ?



DIABOLICAL DEVELOPER

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~~.



Programming, Motherfucker

Do you speak it?

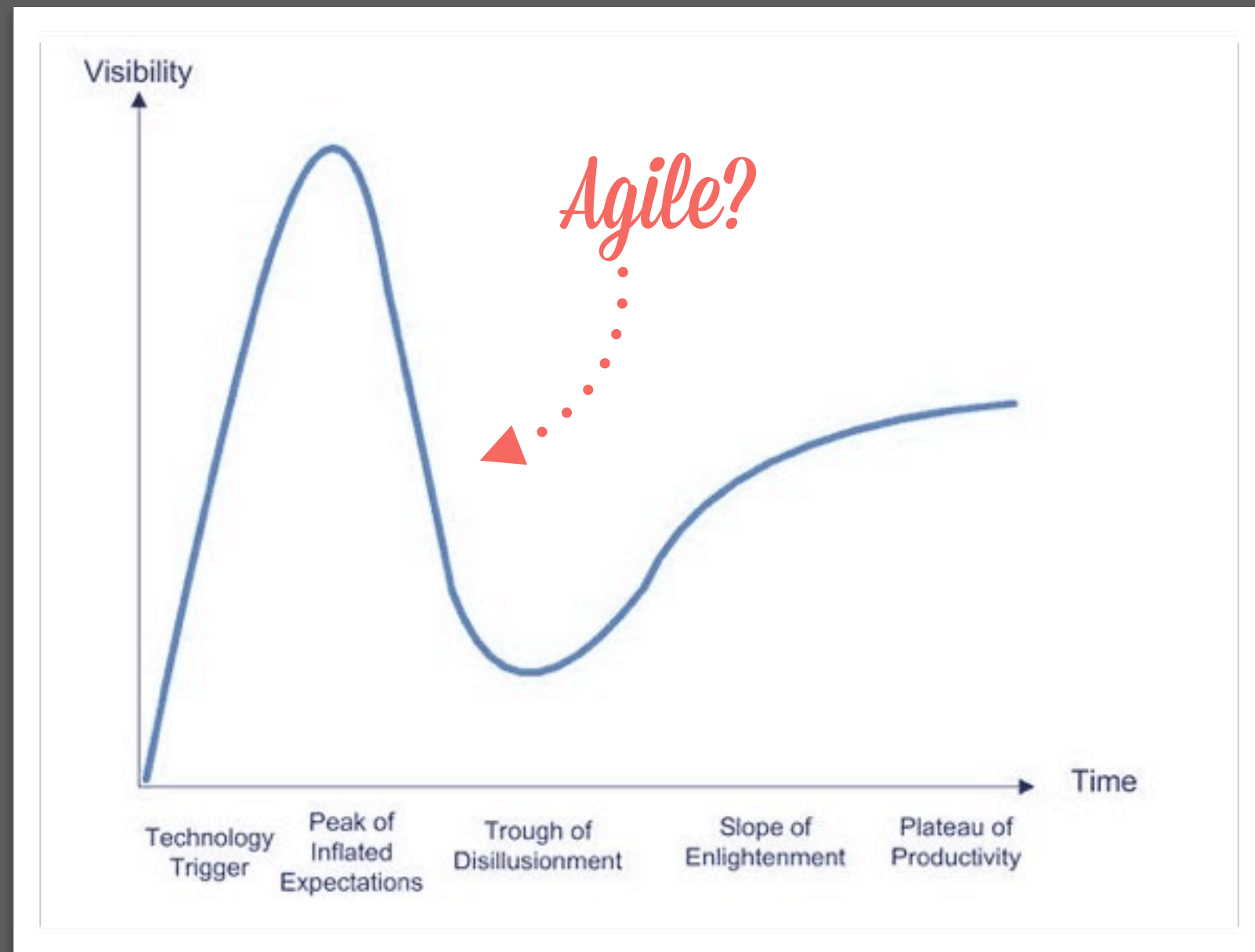


Is

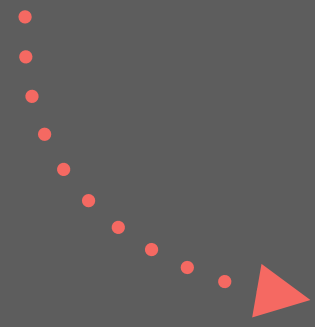
Agile

dead?

The Gartner **Hype** Curve



Stop following the next guru



and kick-ass again



legacy teams think...

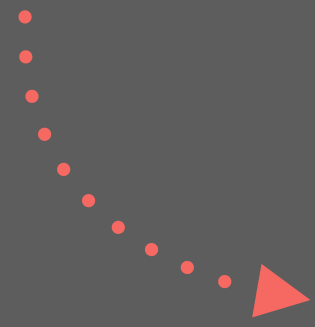


adding processes helps

changing stuff is too complicated

old decisions still apply

Let's improve!



and kick-ass again



legacy teams think...



I don't give a #@!%

 Deliver Kick-Ass Software

 One Kick-Ass Team

 Kick-Ass Collaboration

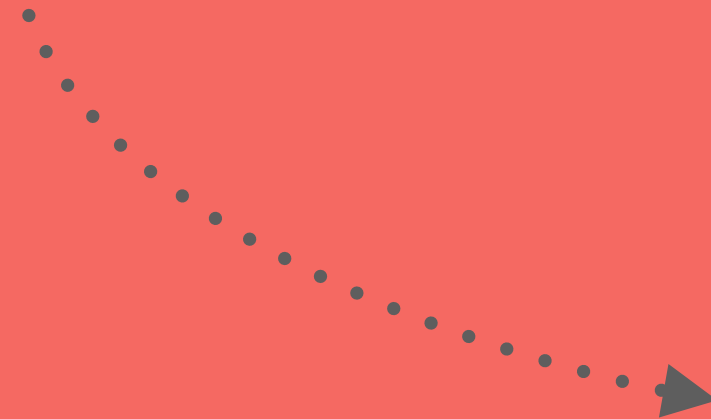
 Kick-Ass Automation

Ass Kicking Topics



Deliver

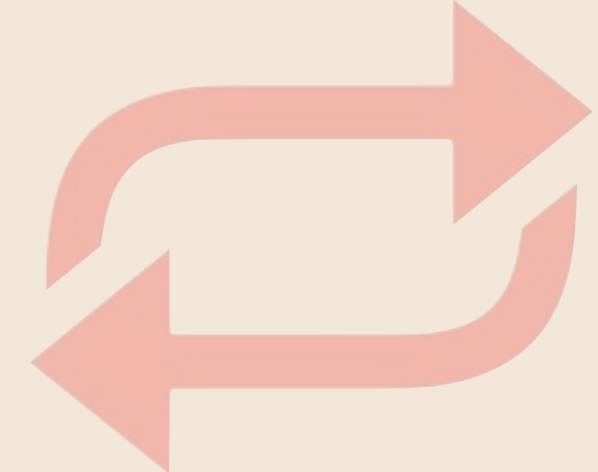
Kick-Ass Software





Software

Construction Area - Improving Software



Feedback

Y JIRA

Dashboards Projects Issues Agile Milton Waddams

Angry Nerds / ANERDS-142

Nerds is not spelled right. Please fix it!

Configure Fields

Create Issue Quick Search

Edit Comment Planning Board Task Board More Actions

Details

Type: New Feature
Priority: Major
Affects Version/s: None
Component/s: UI
Labels: None
Environment: ?? It's on the Angry Nerds website!
Rank: 115233

Status: Open
Resolution: Unresolved
Fix Version/s: None

People

Assignee: Anton Mazkovoi [Atlassian]
Reporter: Milton Waddams
Participants: Anton Mazkovoi [Atlassian] ... (1)
Vote (0) Watch (0)

Dates

Created: Today 6:42 PM
Updated: Today 6:42 PM
Last commented: Less than a minute ago

Description

It's spelled "Neds"!

Activity

All Comments Work Log History Activity Test Sessions

There are no comments yet on this issue.

Comment

Bug tracking and project tracking for software development powered by Atlassian JIRA (v5.0.713-sha1.aec55e2) | Report a problem

Please include a screenshot or other information that caused the problem.

Attachment No file chosen
The maximum file upload size is 10.00 MB.

Original Estimate (eg. 3w 4d 12h)

An estimate of how much work remains until this issue will be resolved.
The format of this is 'w d h m' (representing weeks, days, hours and minutes - where * can be any number)
Examples: 4d, 5h 30m, 60m and 3w.

Labels

Begin typing to find and create labels or press down to select a suggested label.

Create another

**You get
feedback**

Haters

Fanboys

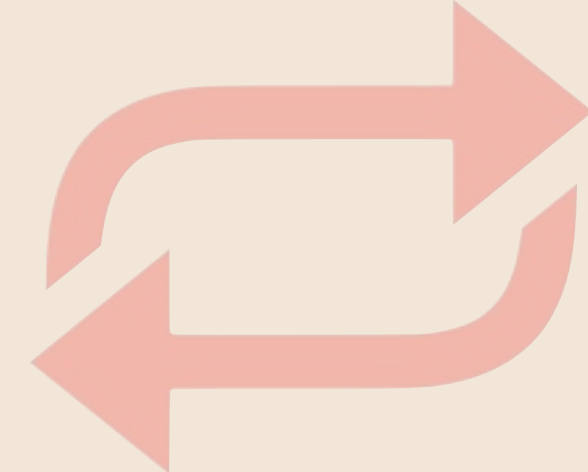
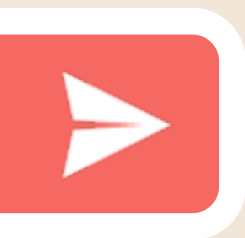




**You want
feedback**



THE CROWD



Generate a kick-ass

Feedback

Experience

**How was your
security experience
today?**

Heathrow

Tell us how we
can make your
journey better

Easy to find

Make it simple

Fast to submit



GOT FEEDBACK?



Opt In for a Better GreenHopper

Help us make GreenHopper better! We're continuously working to optimise the GreenHopper 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 GreenHopper 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



GreenHopper

Getting Started with GreenHopper

GreenHopper 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

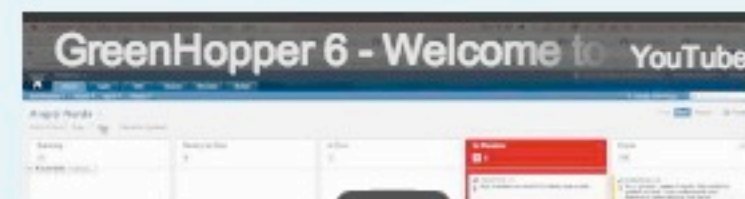
DIY

What's New in GreenHopper 6.1

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.

GreenHopper Welcome Video





Got Feedback?



Rate the page * 😄 Awesome 😊 Good 😐 Meh! 😞 Bad 😡 Horrible

What do you like? *

What needs to be improved? *

Upload a screenshot

Name

Email

[Cancel](#)



Easy to find

Make it simple

Fast to submit

Got Feedback?

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

Email

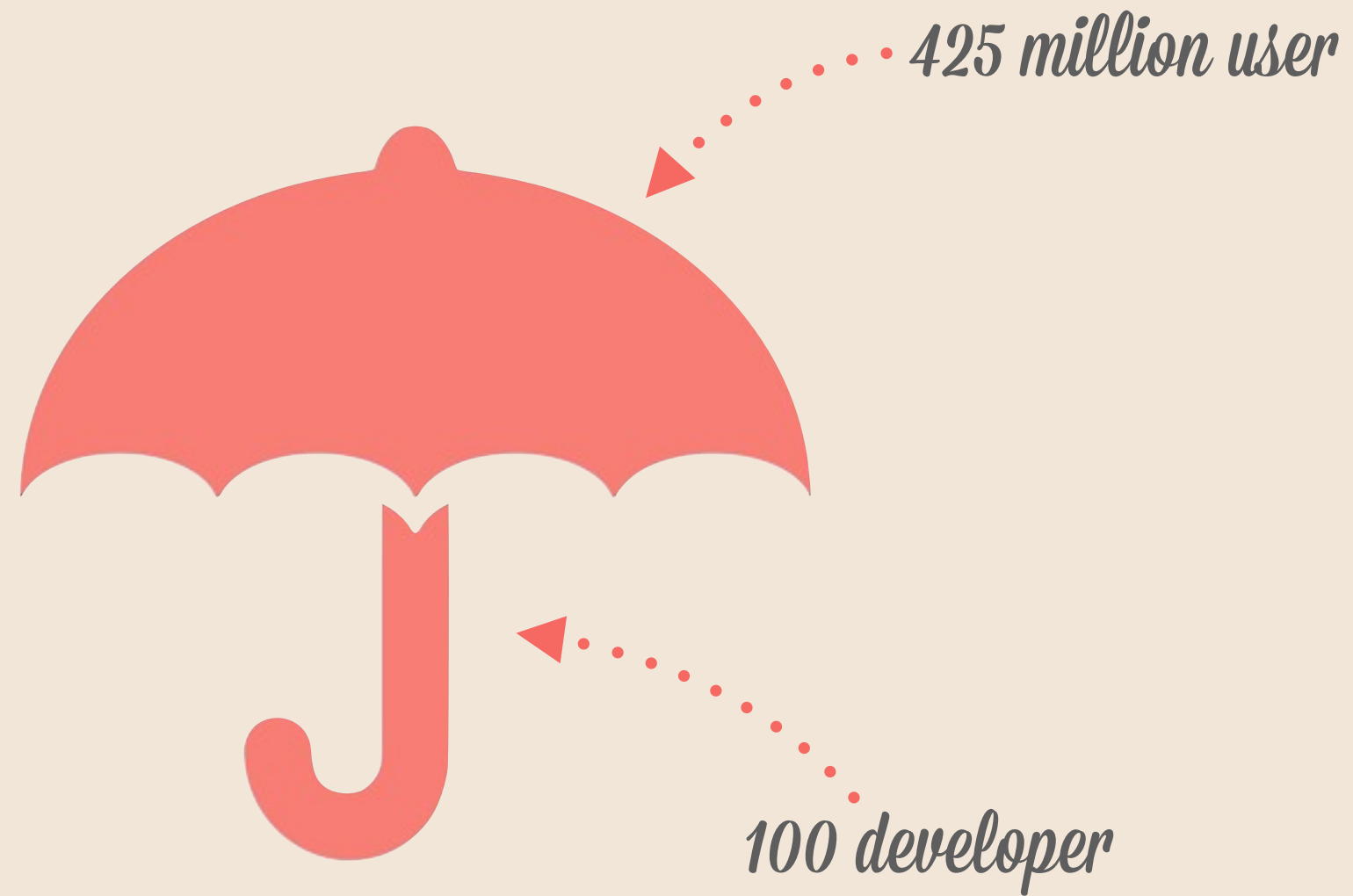
[Cancel](#)

Protect your Developers





The Sh*t umbrella





We're not doing





Everyone — On The — Front Line



Feedback



Close the Loop

and get **pers**♥**nal**



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



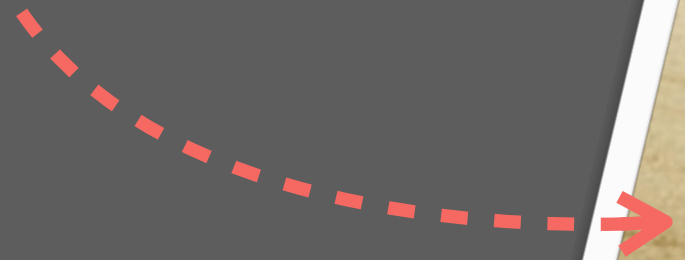


Developer on Test





*So the developers are
doing all the work?*





QA

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

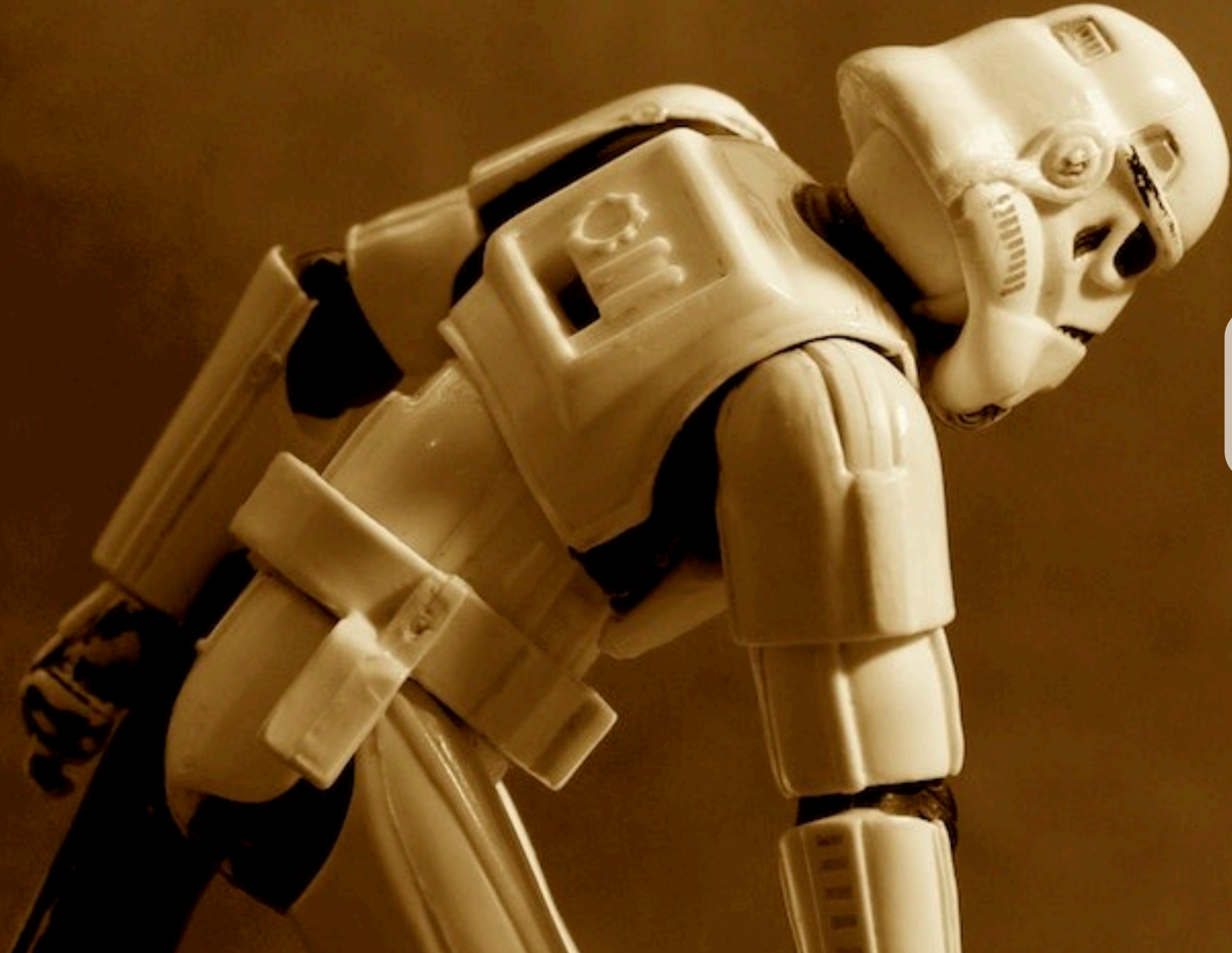
Quality is everybody's responsibility. QA employees help and train developers to become better tester, testing the more complicated stuff, creating test data, investigating in new test tools and working on test strategies.



6 *Tips* for kick-ass DoTing.....



1. Training



2. Pairing

3. Blitz Test





4. Test Recipe*

* advanced dotting

5. Split Sessions*



* advanced dotting



6. Bug Hunter*

* advanced doting



Quality is everybody's responsibility



Developers

are doing

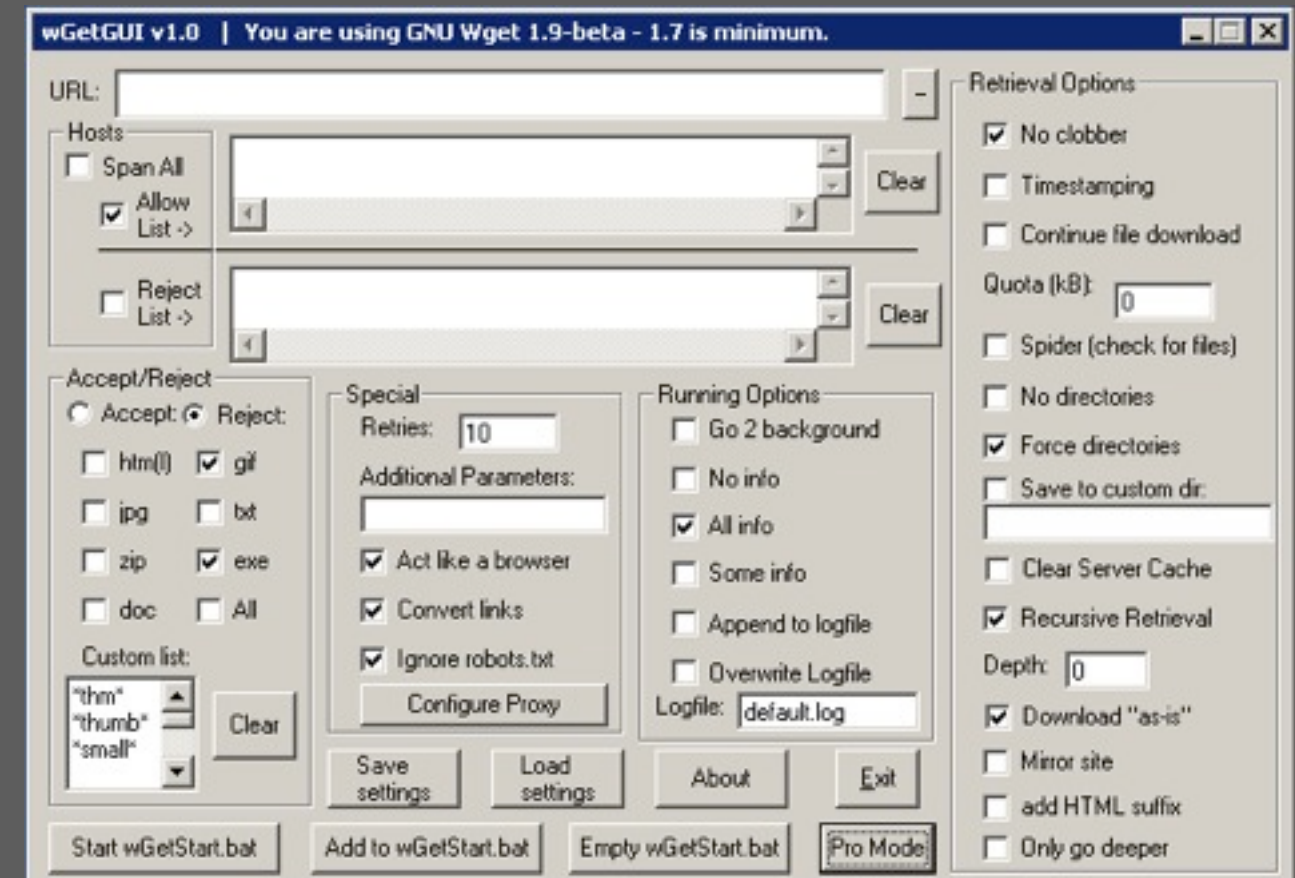
Design



Developers

are doing

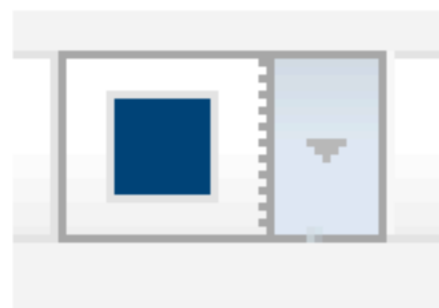
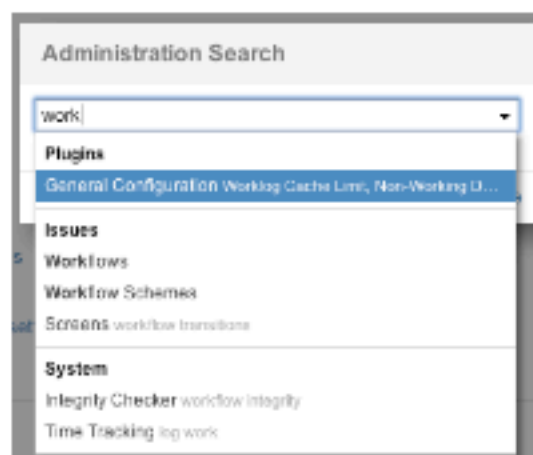
Design





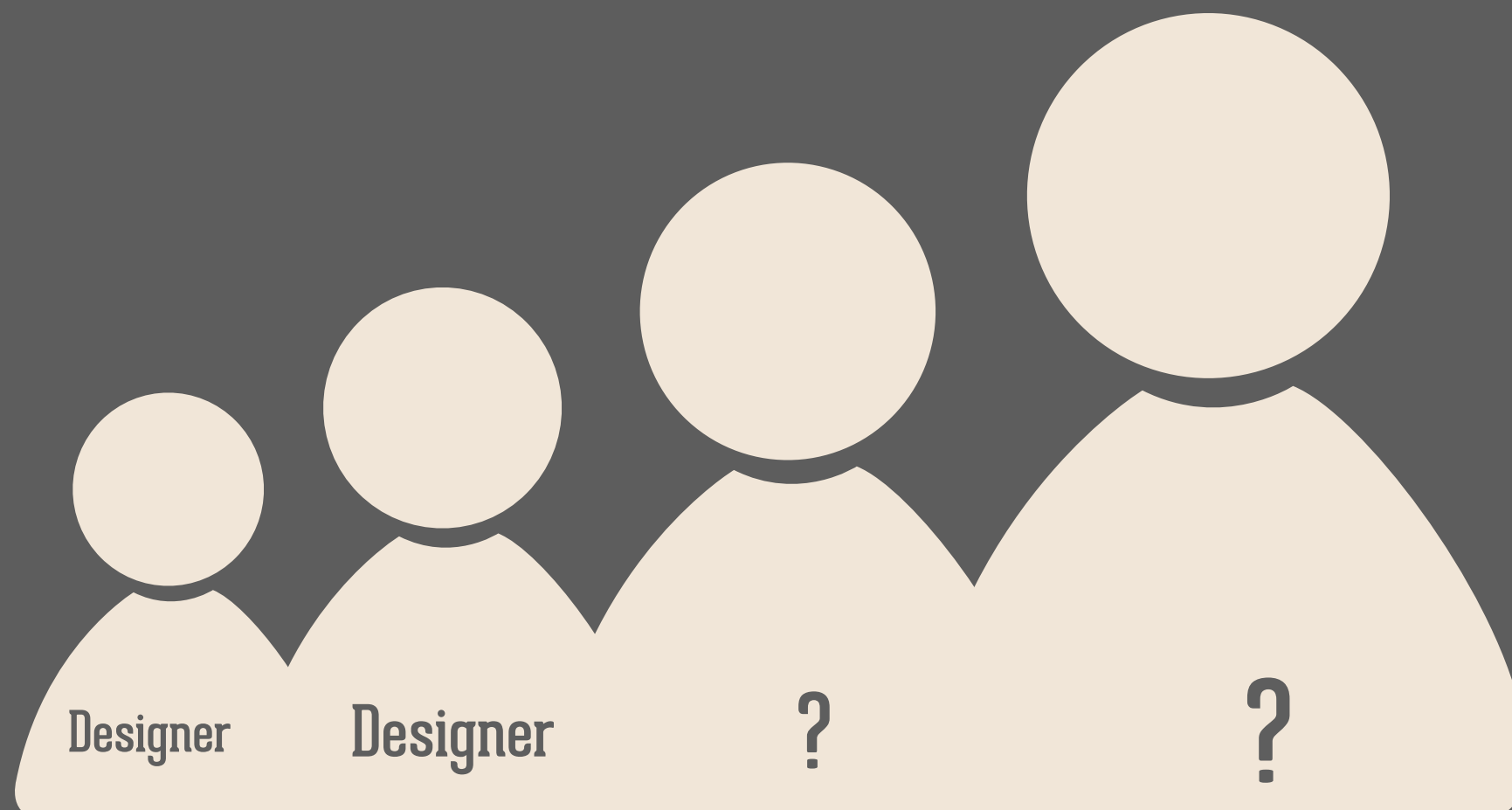
Why should we have designers?

▼ Atlassian Menu Gallery





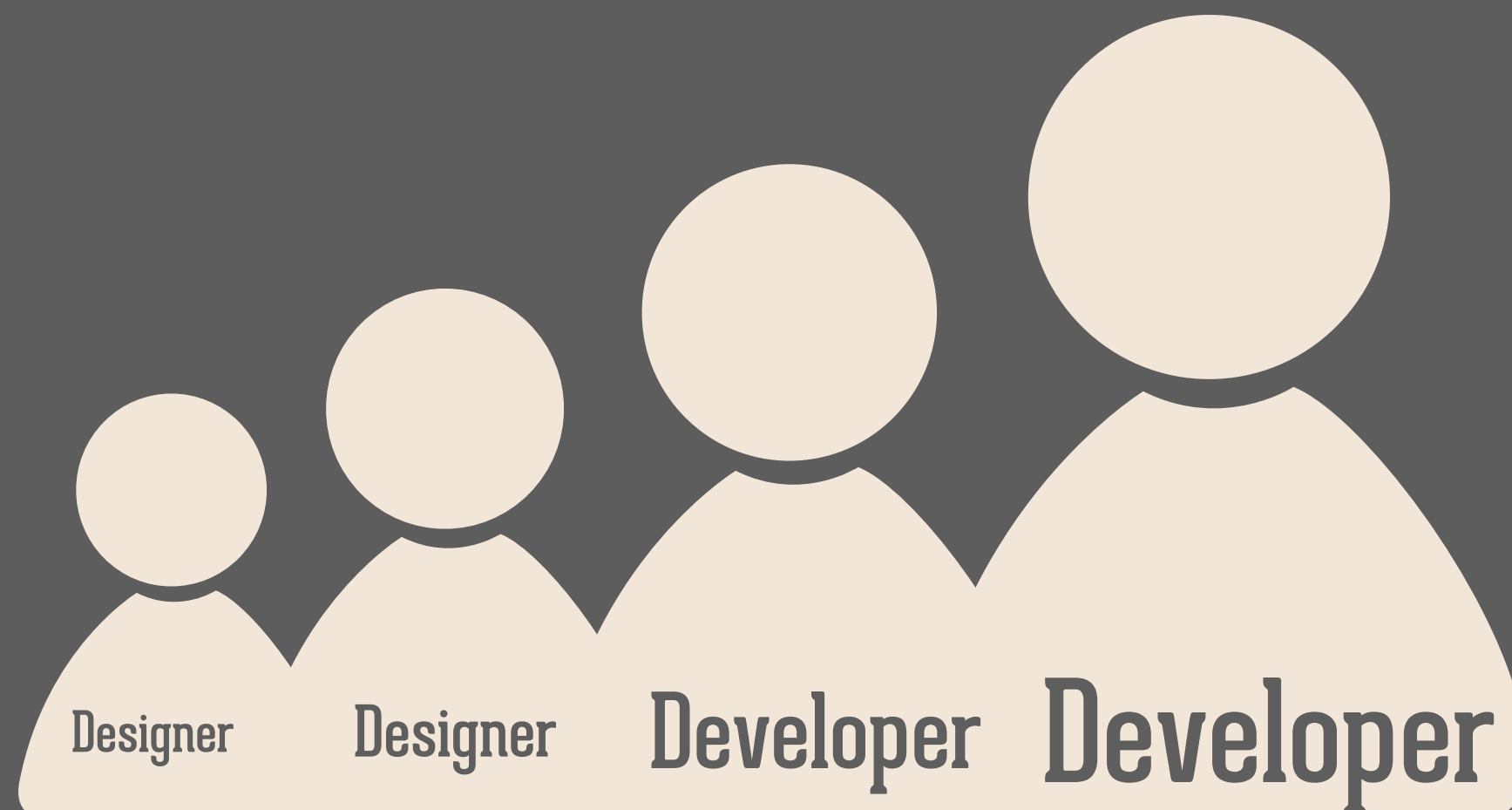
Scaling Designers?





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

Dev Speed



Design Workshop for Developers





Developers

Designers



Designers

Developers



removing friction



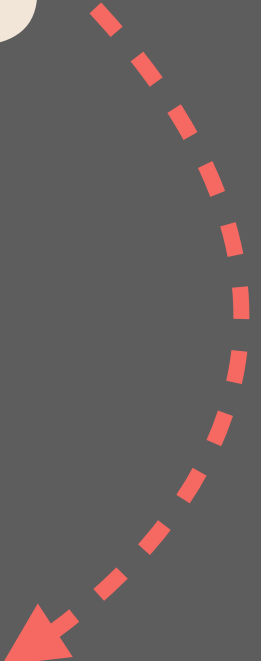
Designer in code

Developers

are



are



Designers



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

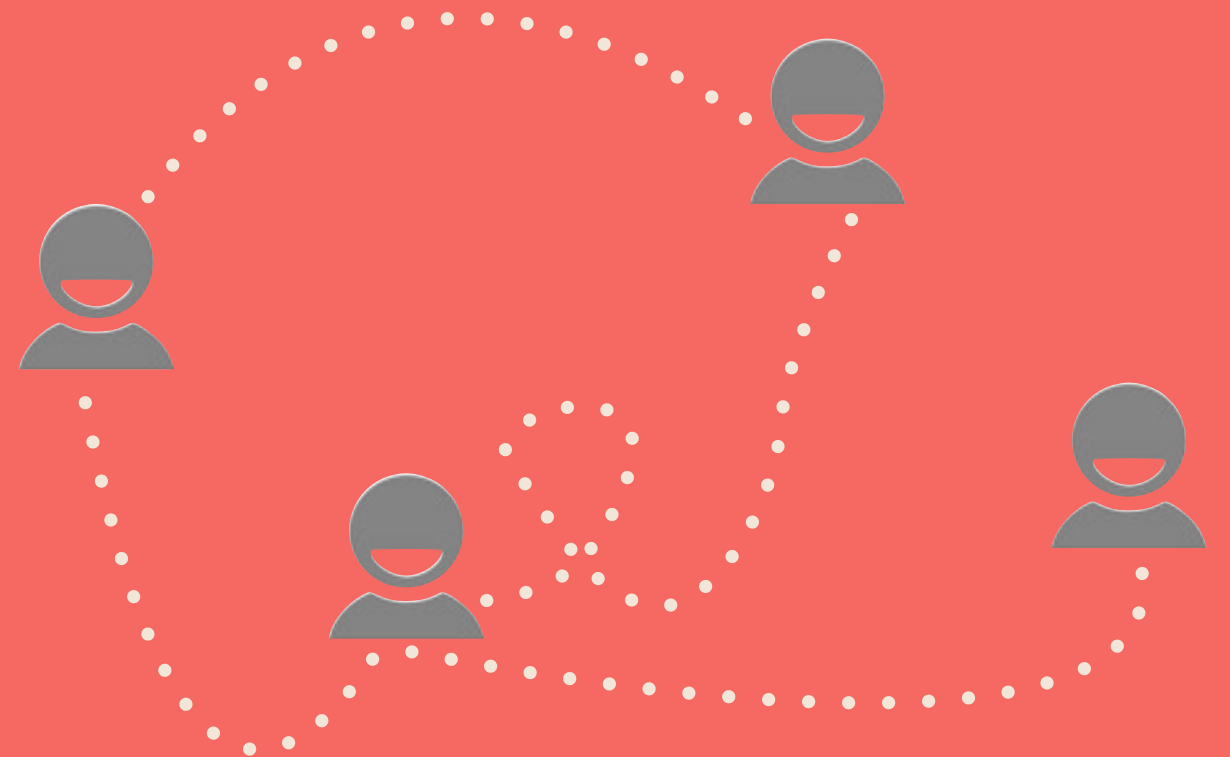


Keep improving!



Kick-Ass

Collaboration



Lonesome Cowboy Coder



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







Traffic **Rules**

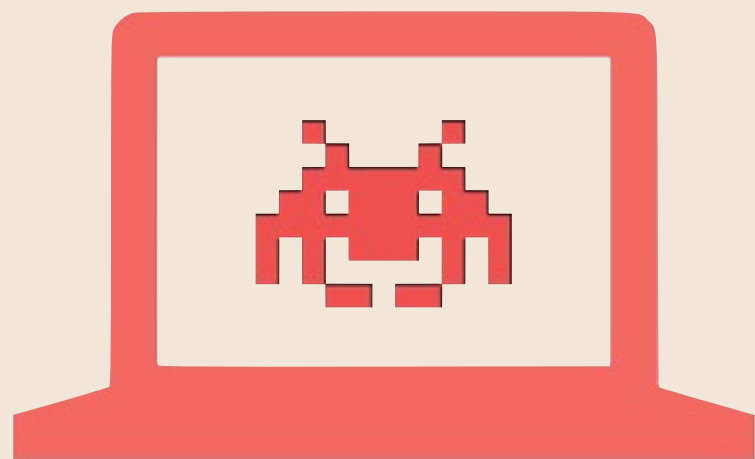


are protecting us from **accidents**



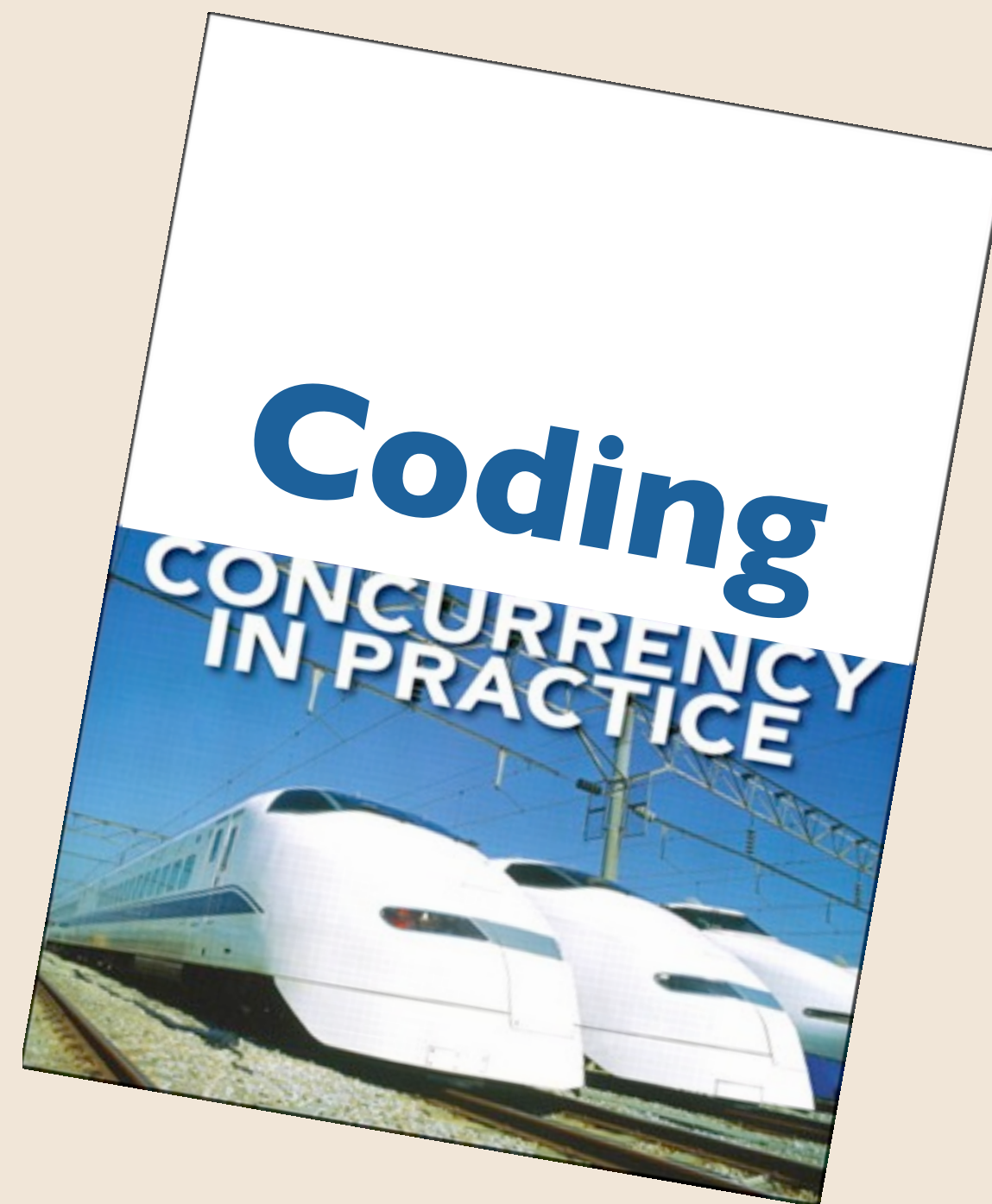
Development **Rules**

are protecting us from **making mistakes**





Fast + Simple
Workflow
For Parallel Coding





A branch

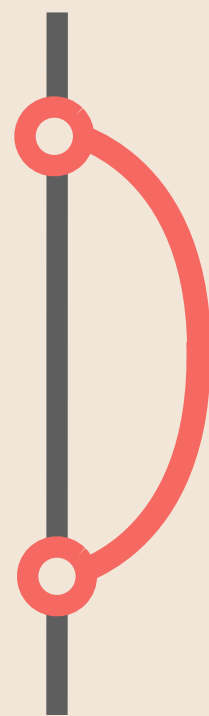
for every task





Branches

have short lives



average 2 days



Pull Requests

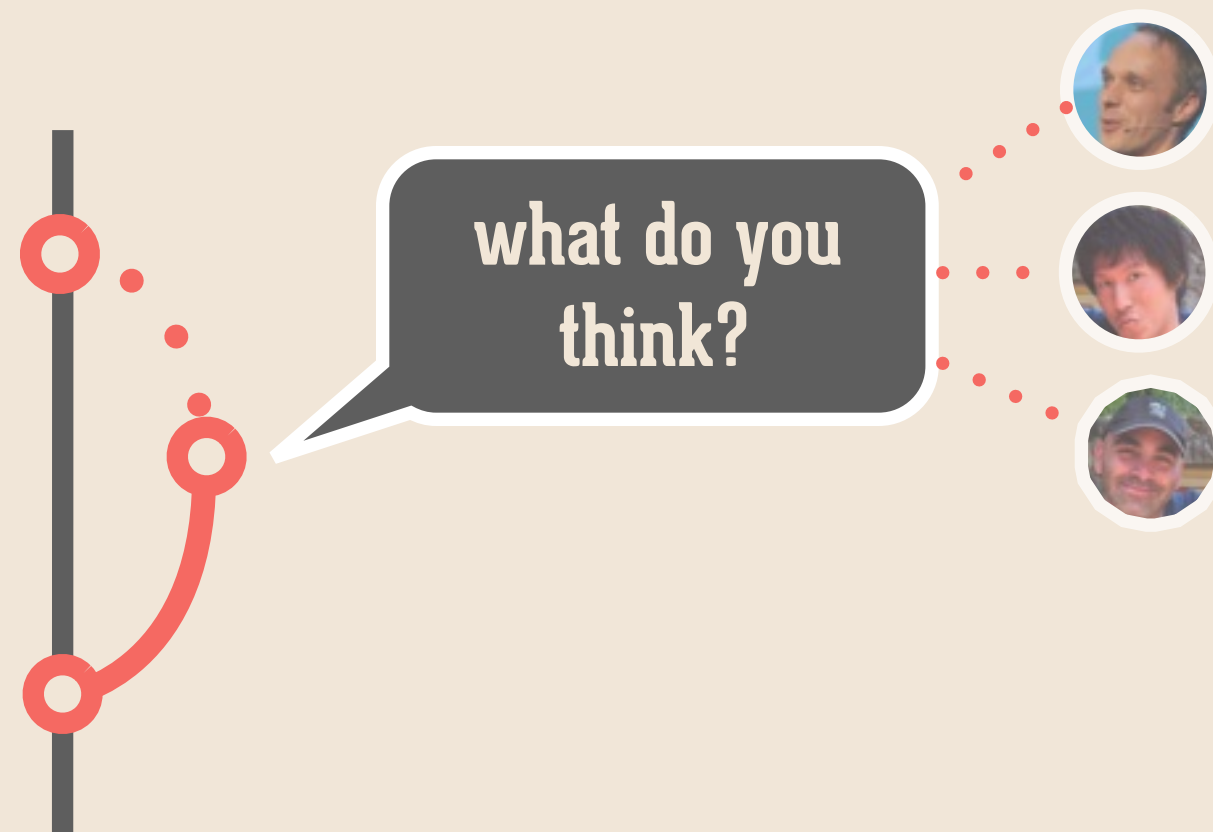
can improve your code quality





Pull Requests

help with collective code ownership





Pull Requests

makes you feel better





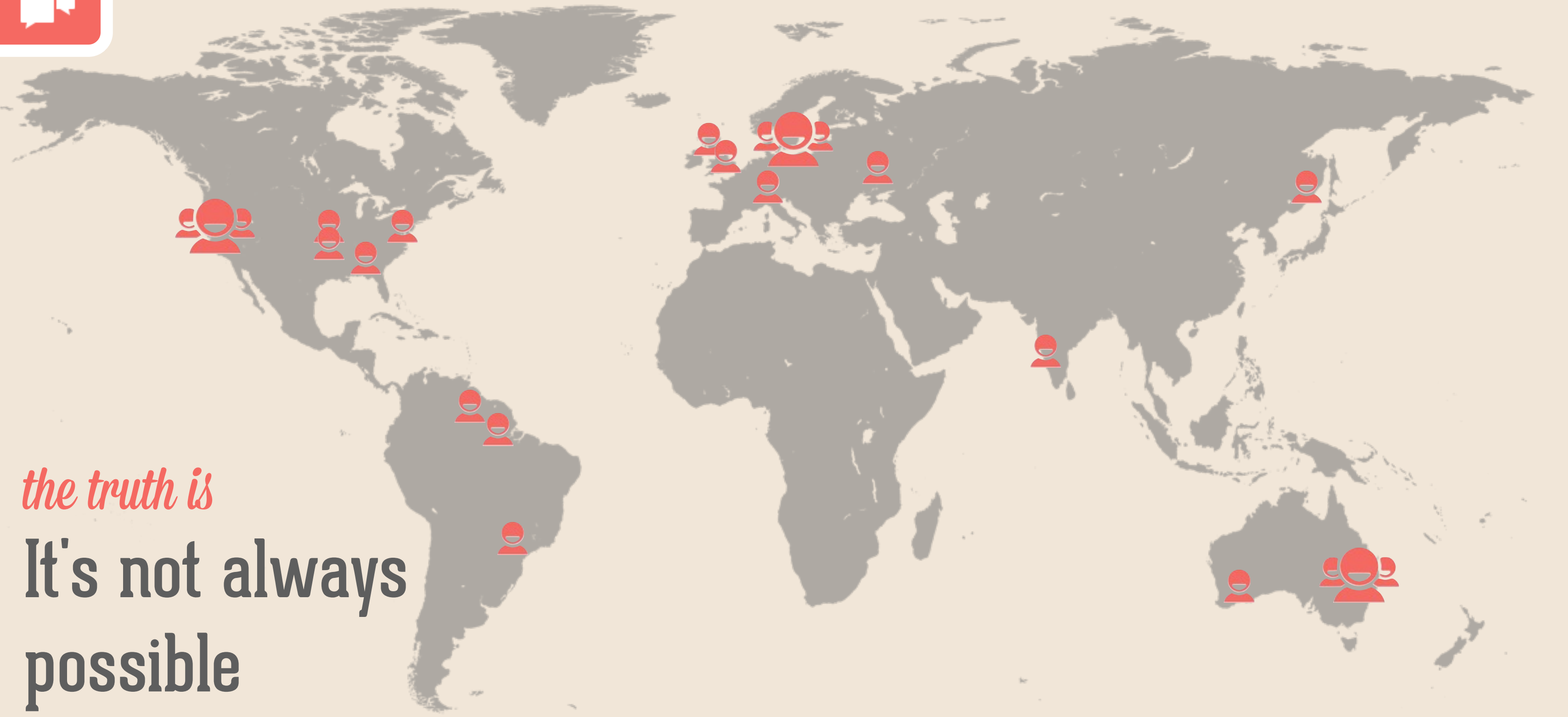
fast approvals 



moving fast 



we prefer
**Collocated
Teams**



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



Where do you work best?

it depends



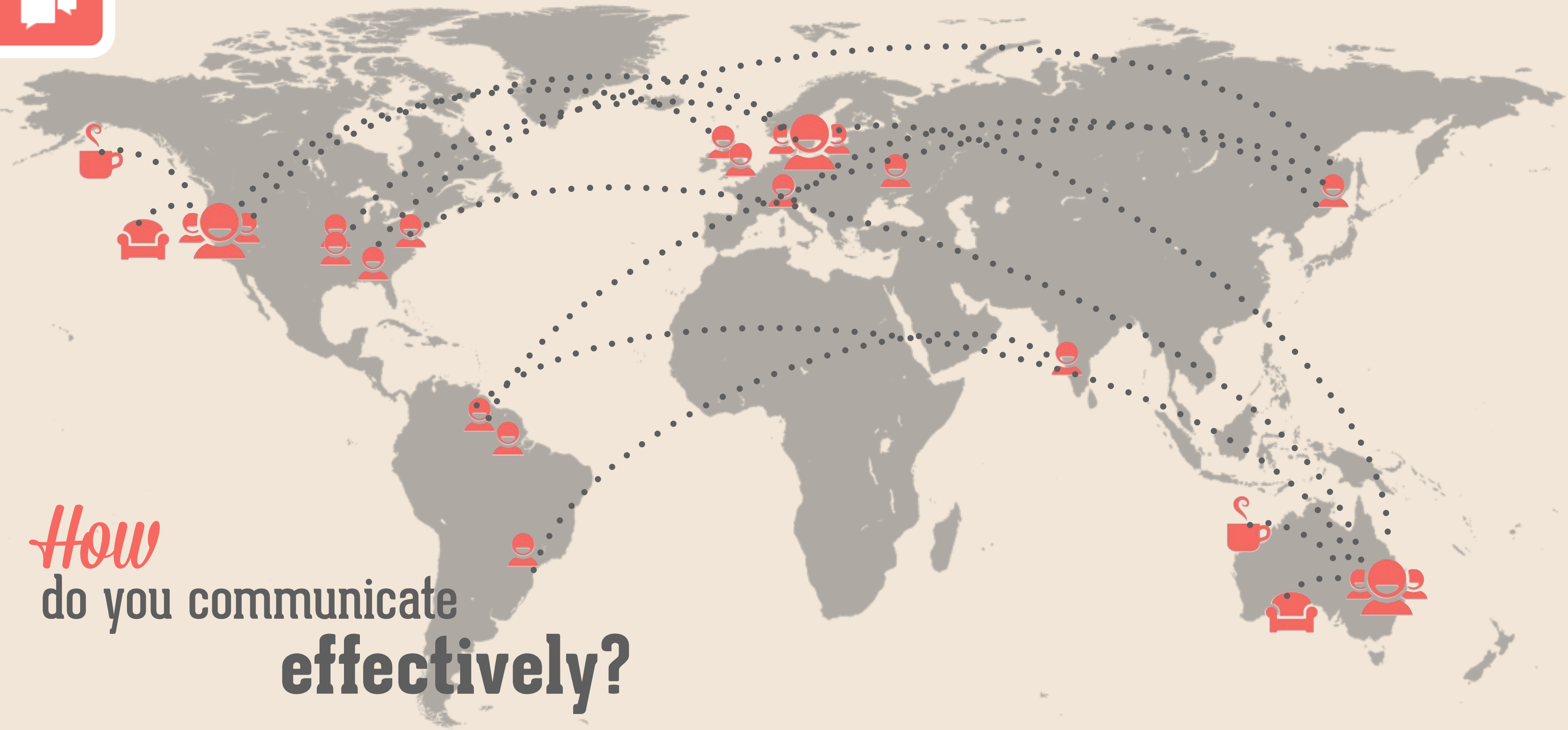
...in the office?



...in the coffee bar next door?



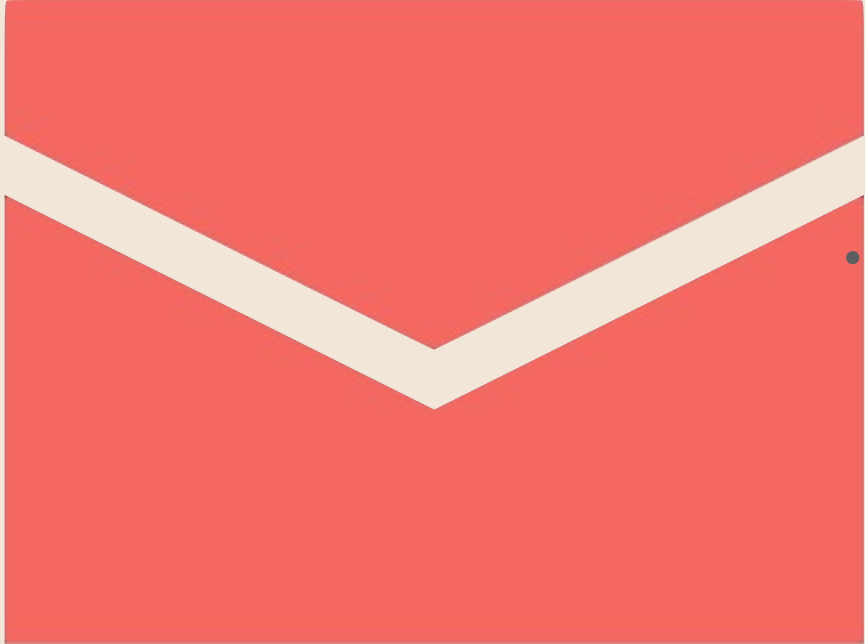
...on your couch at home?



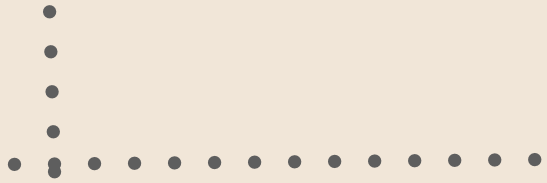
How
do you communicate
effectively?



Emails



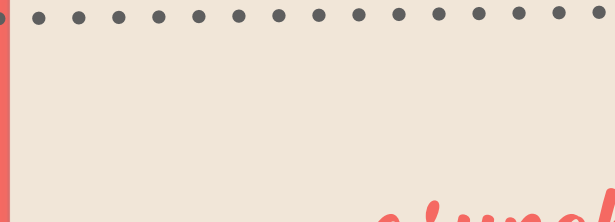
offline



one to many



asynchronous



add people





Are you
crazy ?

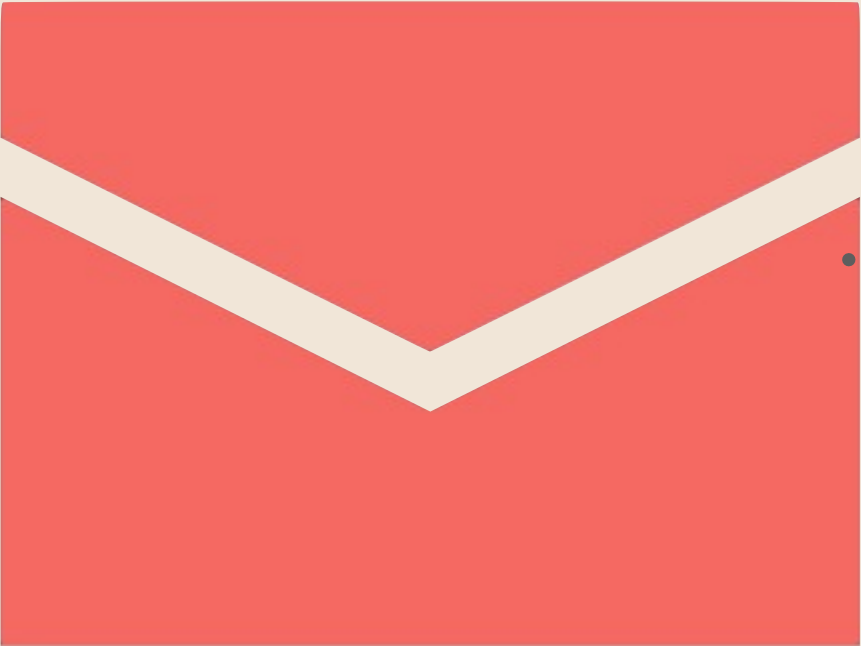




Problems

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



Who uses *Chat* ?



Confluence
Developer

Design Team

Enterprise
Discussions

Beer Drinkers

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

Chat Rooms



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





Choose your tools wisely



Remove collaboration **friction.**
Easy workflows -> fast development

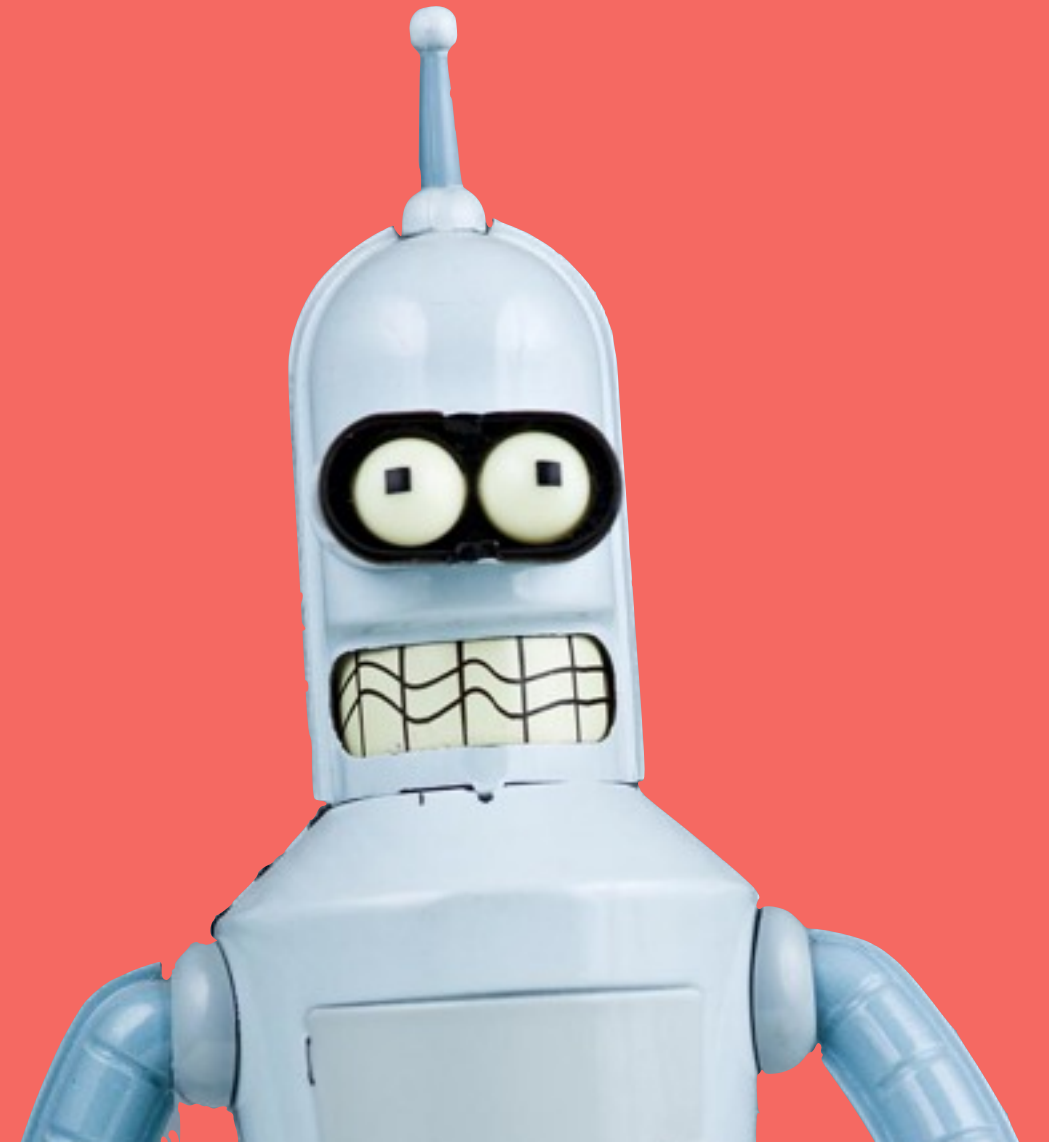


Keep improving!



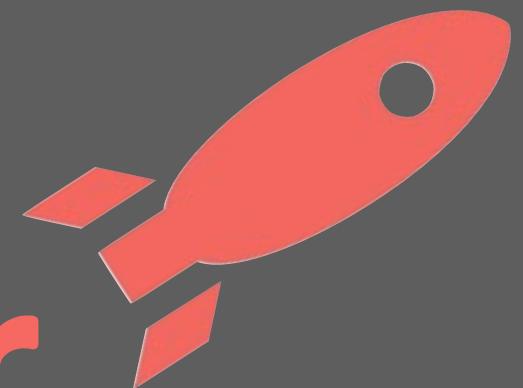
Kick-Ass

Automation





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



automating their work

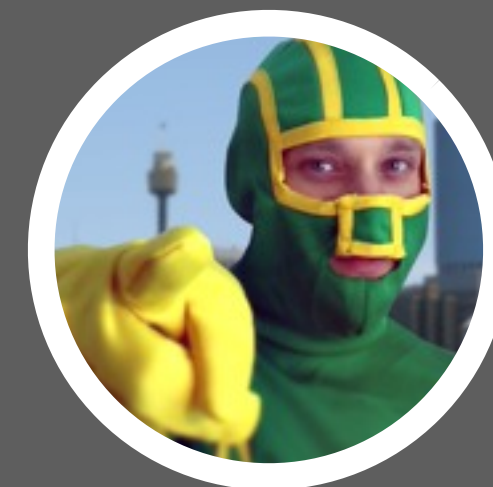


How much time do you spend a week
to **automate** your software development?





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

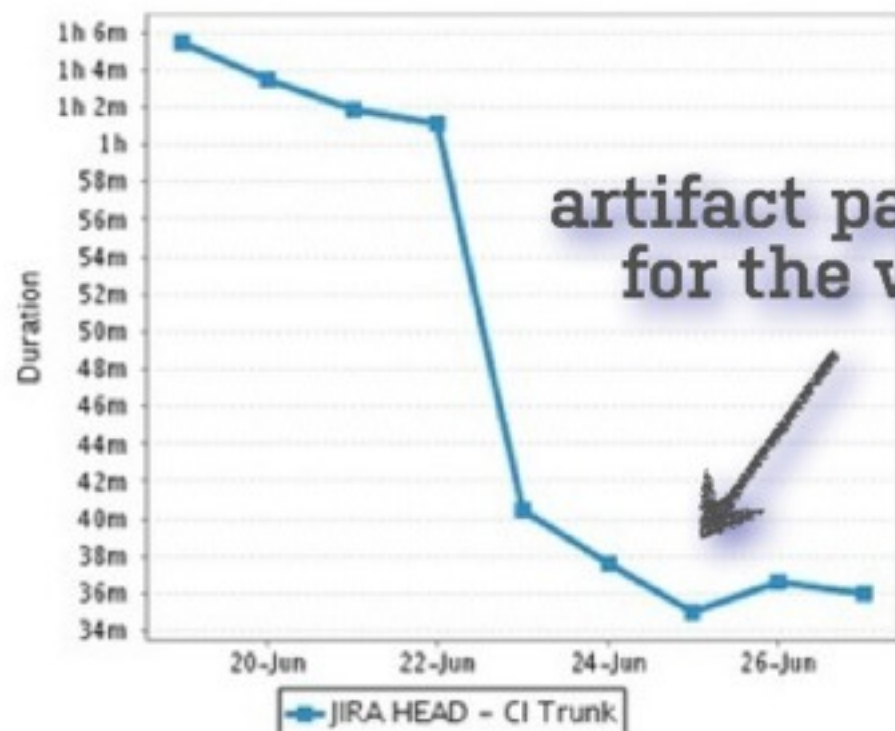
and **kick-ass** again

1. Pass the artifact

Build Duration

The report shows how long your build takes over time. Is it getting slower or faster?

Chart Data Table Builds





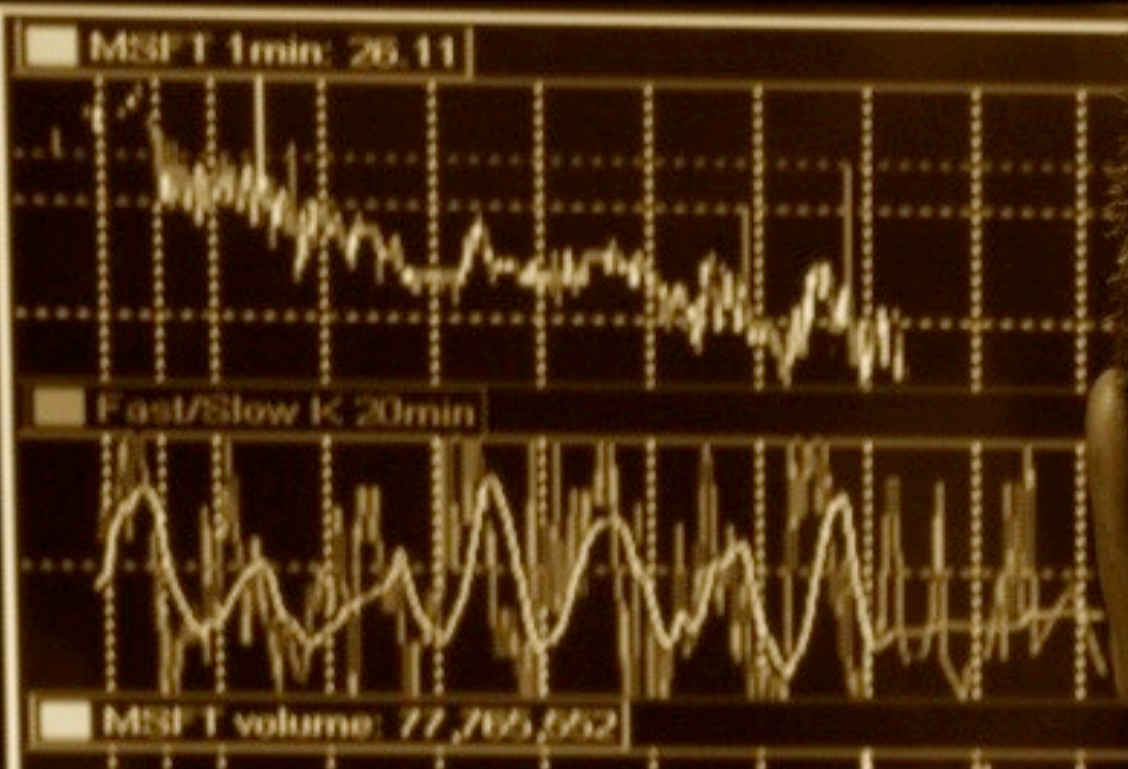
2. Parallelize Tests

3. Have a build strategy

performance tests *←... nightly builds*

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

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



COMP 2055.71 +3.18 000 11:09:57

Symbol	Bid	Ask	Action
MSFT	26.17	26.18	BRUT Joins
MSFT	26.17	26.18	ISLD Lifts Off
MSFT	26.17	26.18	ISLD Joins B
SUNW	4.21	4.22	TMBR Up Off A
MSFT	26.17	26.18	NOCI Joins B
MSFT	26.17	26.18	TRAC Joins B
MSFT	26.17	26.18	AMEX Uptick
INTC	23.25	23.25	MVSE Leaves
SUNW	4.21	4.22	ADFN Joins B

Shrs: 16.5K NPL: +12316

Symbol	Price	Time	Volume	Order Type
4500 INTC	23.24	11:09	5,941	100 C
-5400 SUNW	4.6	11:09	5,942	325 C
4500 INTC	23.24	11:09	5,940	386 P
-5400 SUNW	4.6	11:09	5,940	114 P
4500 INTC	23.24	11:09	5,940	700 O
-5400 SUNW	4.6	11:09	5,950	1500 O
600 UTSI	15.11	11:09	5,950	1000 O



4. Look at your stats!

SIRI 5.95 +0.02 25N 1 1000

L 5.89 H 6.04 V 19,922.8

Sirius Satellite Radio Inc. - Common

Symbol	Price	Volume	Order Type
8100	5.940	500	5.941
7984	5.940	30000	5.950
7900	5.940	30000	5.950
10PCO	6.03	1	SCHD 5.95
10PEUS	6.01	25	NILE 5.95
10FCM	6.01	10	PIE 5.95
10FEET	5.99	180	5.95
10SUM	5.99	286	ind 5.95
10V	5.99	10	NOCI 5.95
182	5.98	182	SIZE 5.95
20	5.98	20	TRAC 5.95
306	5.96	306	brul* 5.95
252	5.96	252	brd 5.95
1	5.97	1	LADEN 5.97



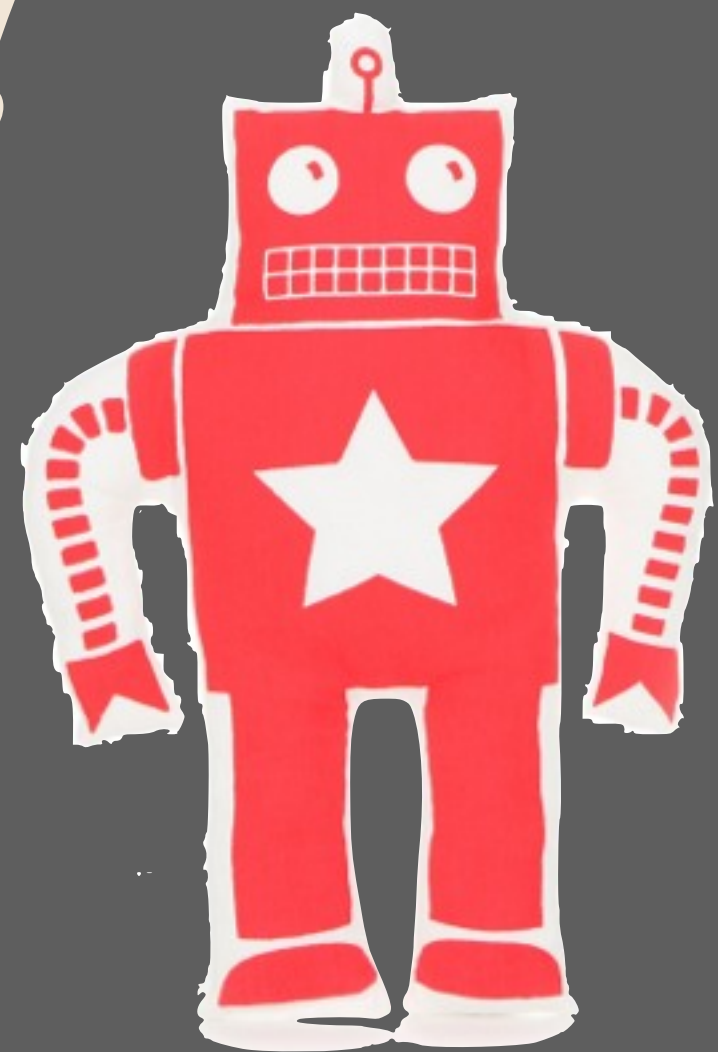
Care about automation

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`

webapp / default / src / main / webapp / static / widget / lozenge / lozenge.less [View diff](#)

```
+ 135 }  
+ 136  
+ 137 a.lozenge {  
+ 138   background-color: #d0dfef;  
+ 139   border-color: #d0dfef;  
+ 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 }
```



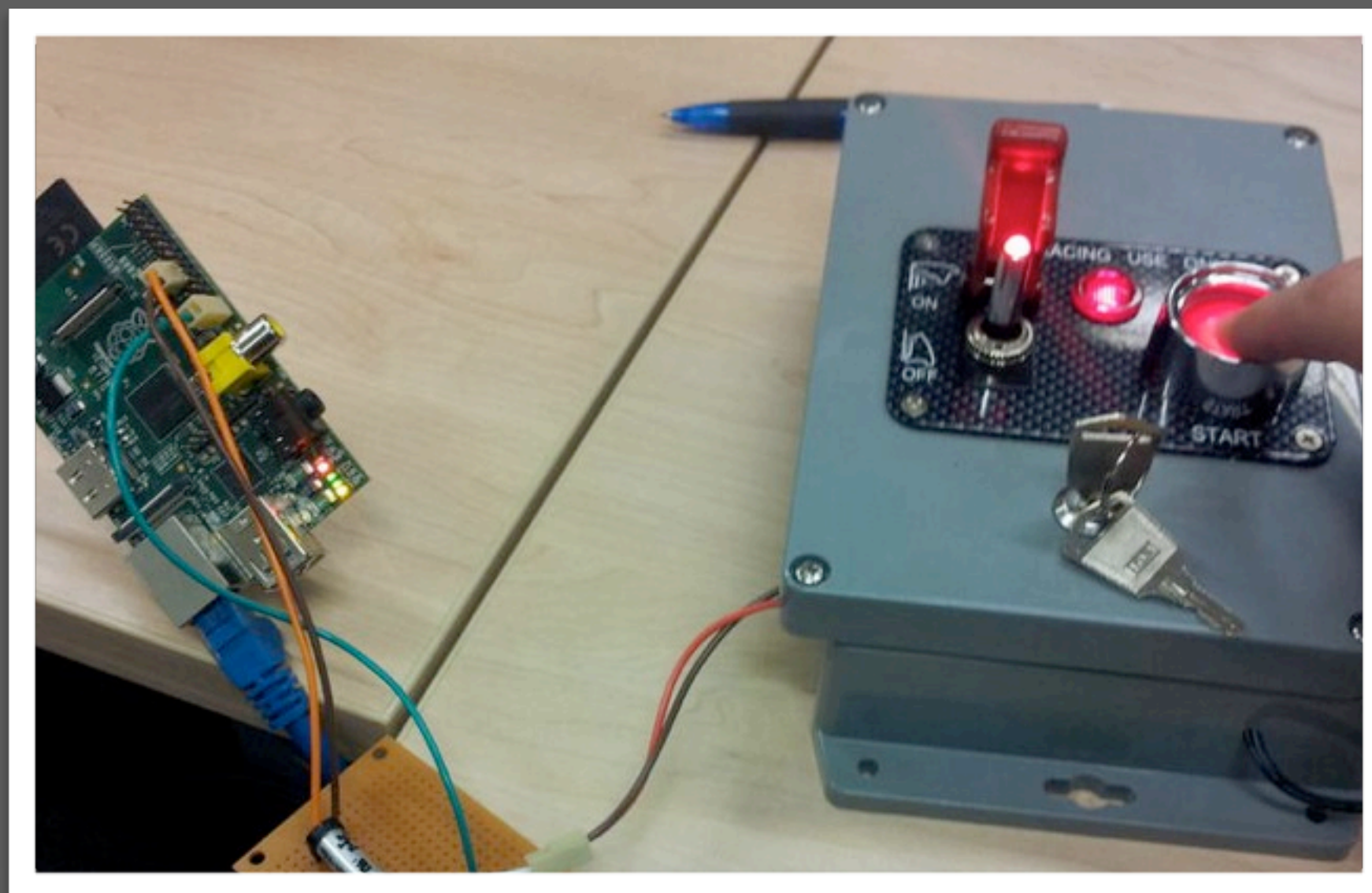
Use your skills to automate things!



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 dev speed

Kick-Ass quality

Kick-Ass scale

Kick-Ass team

Kick-Ass customers



Is

Agile

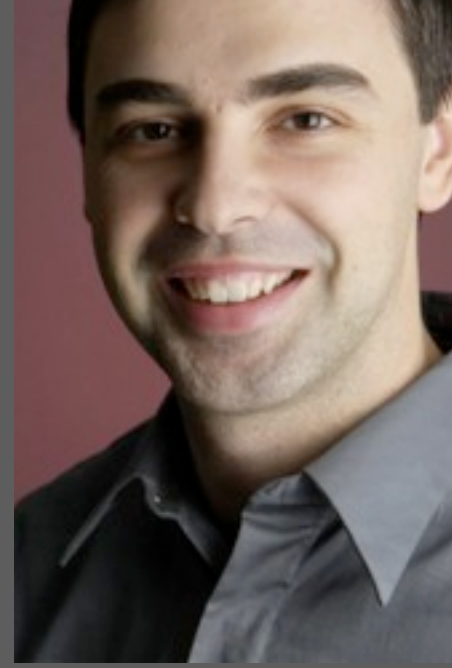
dead?

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!

svenpet.com/slides

 [@svenpet](https://twitter.com/svenpet)