



How to do **Kick-Ass** Software Development

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

 [@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?

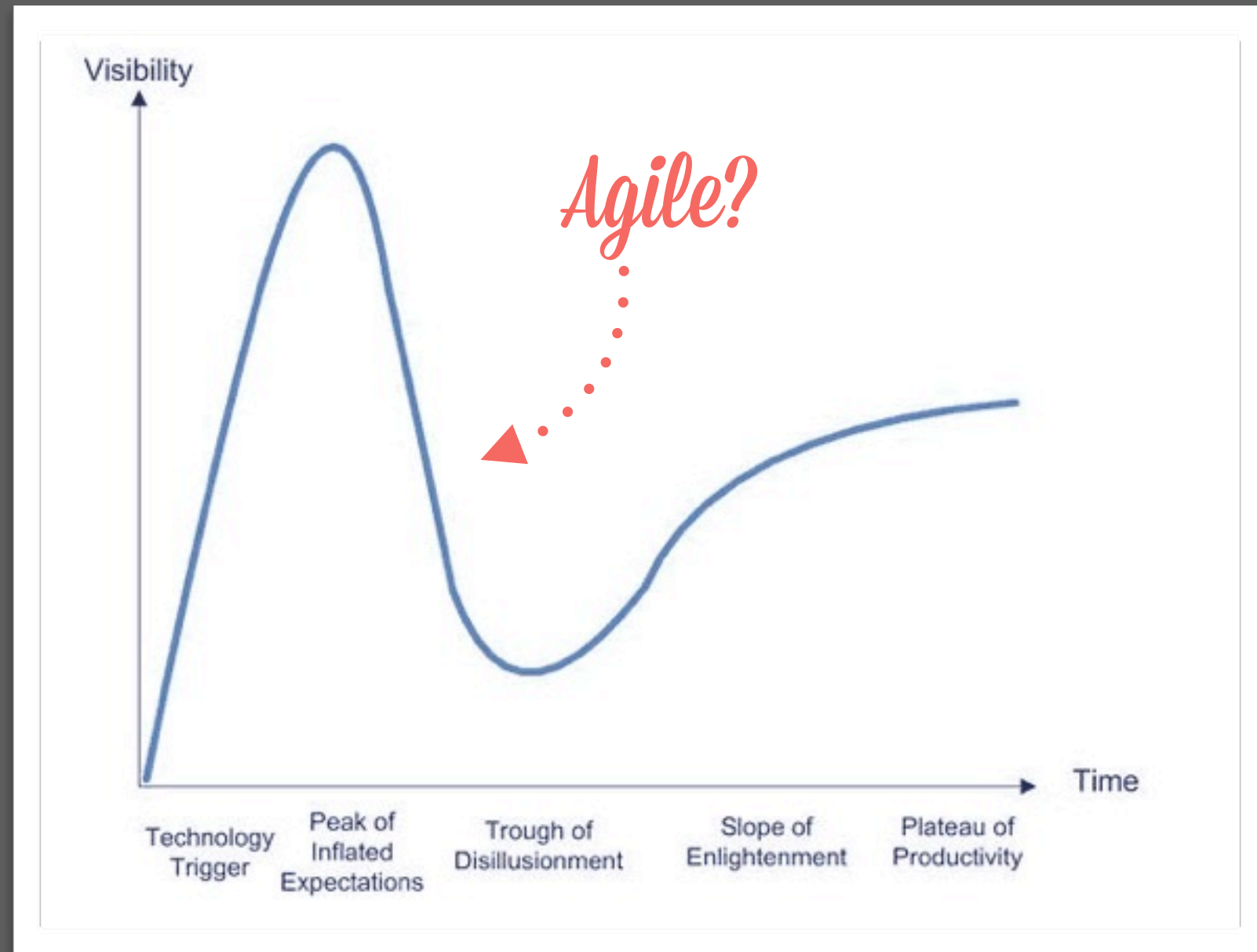


Is

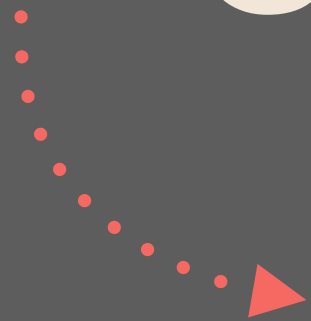
Agile

dead?

The Gartner **Hype** Curve



Getting Real!



and kick-ass again



Ass Kicking Topics

➤ Deliver Kick-Ass Software

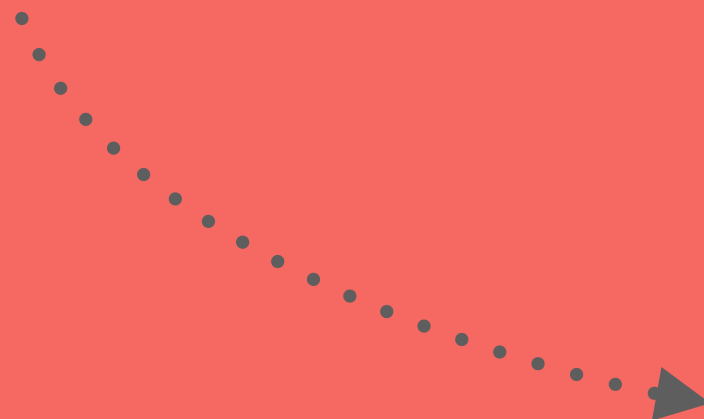
👥 One Kick-Ass Team

💬 Kick-Ass Collaboration

🤖 Kick-Ass Automation



Deliver Kick-Ass Software





Building the right thing

before

How do we know?

Microsoft Kin





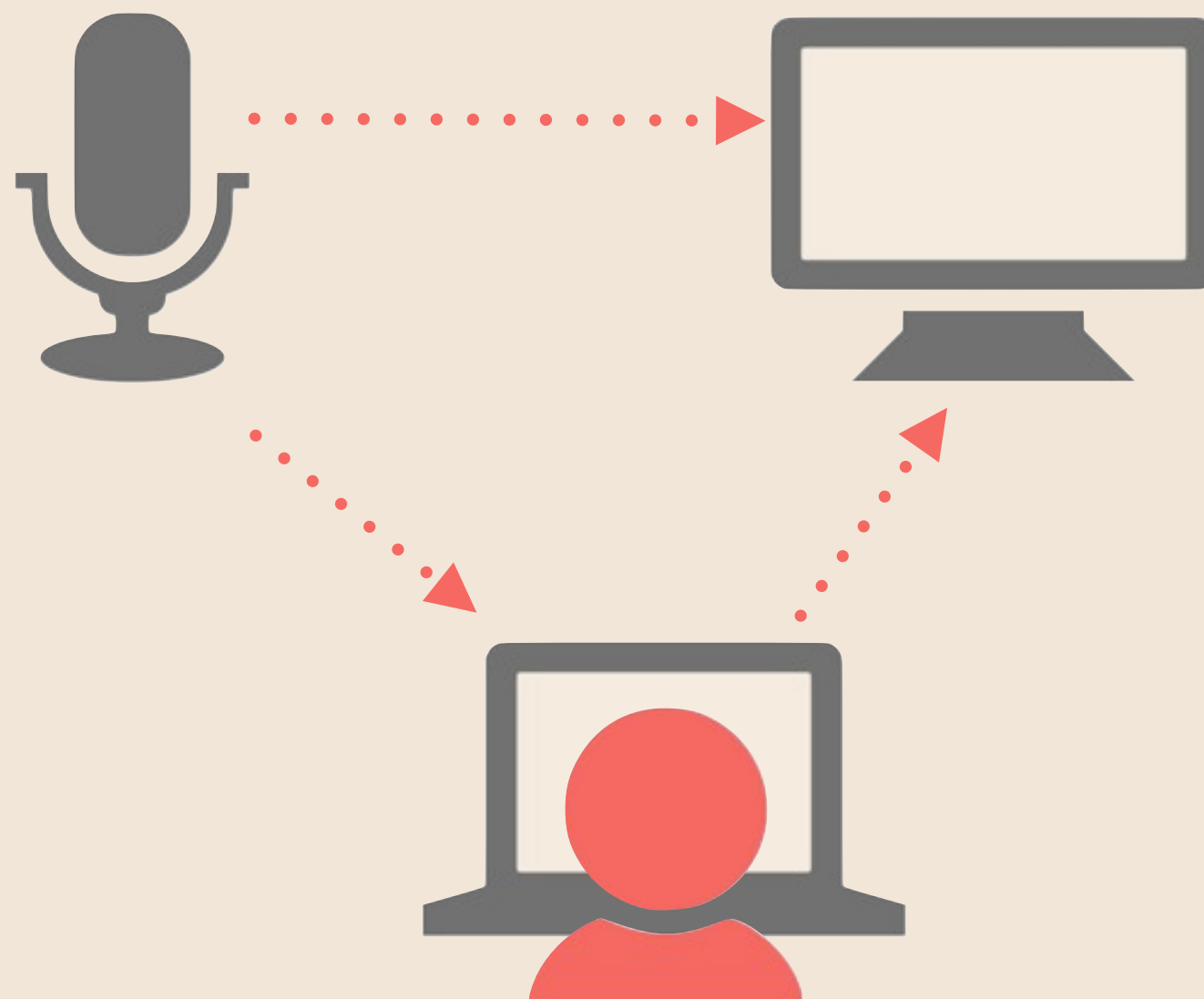
Fake it

..... *til you*

Make it



Speech-to-Text Experiment



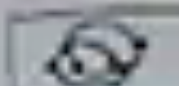
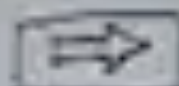


even one step before that....



Paper Prototypes





Daum 한글어원 한글어원 한글어원 한글어원 한글어원

(한글) (한글)

한글어원

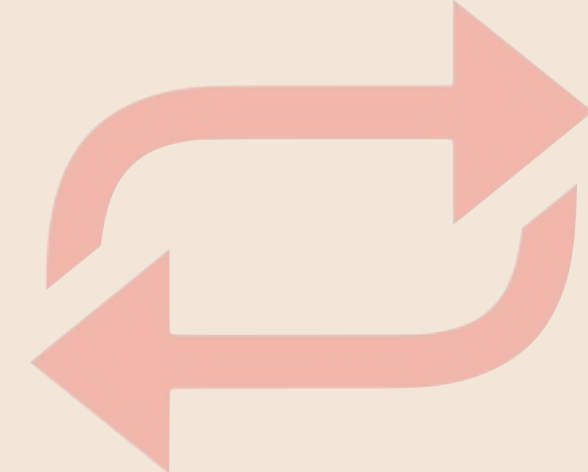
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<input type="checkbox"/>	00	한글	[한글] 한글, 한글	한글	한글
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Software

Construction Area - Improving Software



Generate a kick-ass

Feedback

Experience

**How was your
security experience
today?**

Heathrow

Easy to find

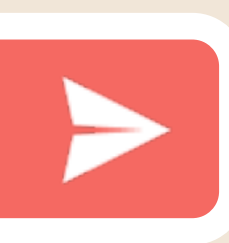
Make it simple

Fun can't hurt

Tell us how we
can make your
journey better



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

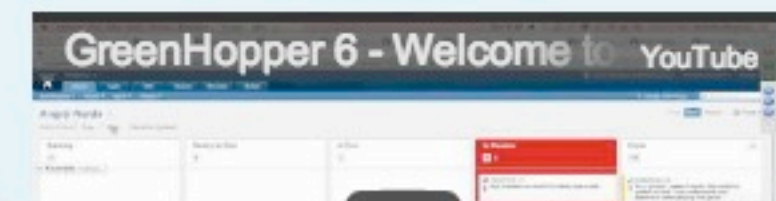
DIY

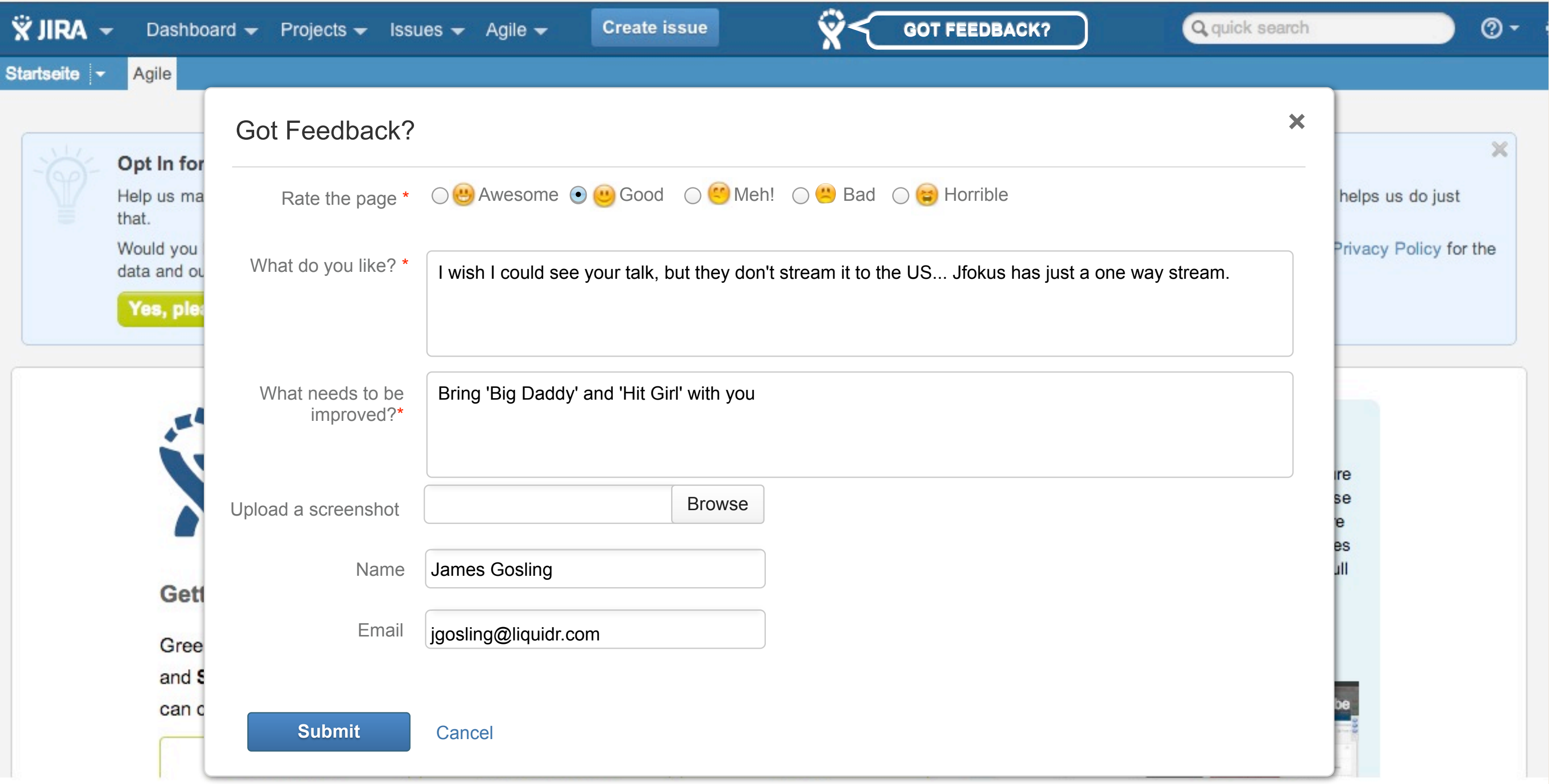
What's New in GreenHopper 6.1

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



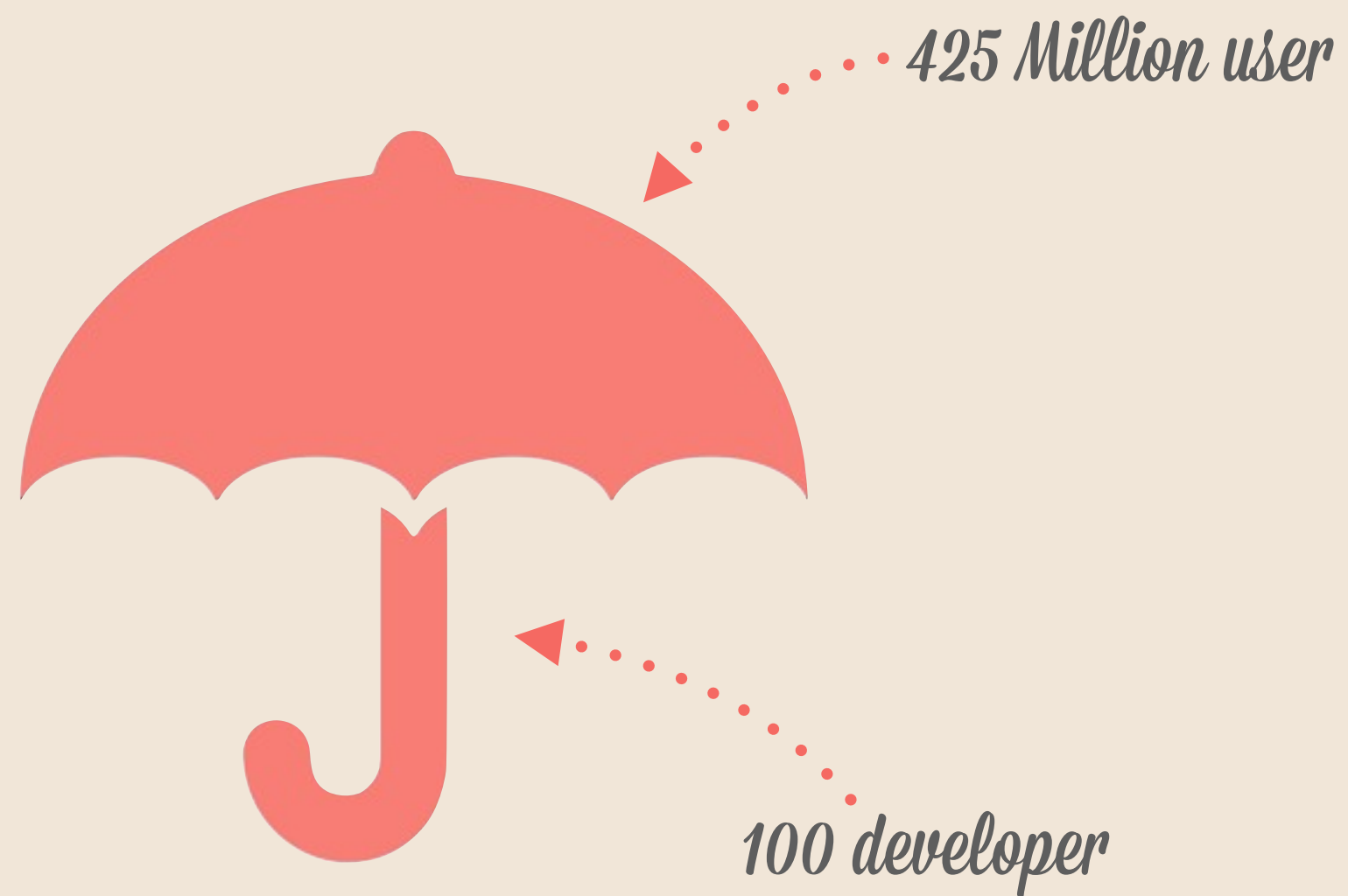


Protect your Developers





The Sh*t umbrella





We're not doing





Everyone — On The — Front Line



Feedback

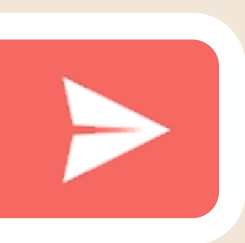


Close the Loop

and get pers♥nal



Developers ~ on ~ Support



Kick-Ass developer care about
customer needs by having an
effective feedback loop





One Kick-Ass Team





Different Roles Responsibilities





The Problems

Bottlenecks : Accountability : Scalability



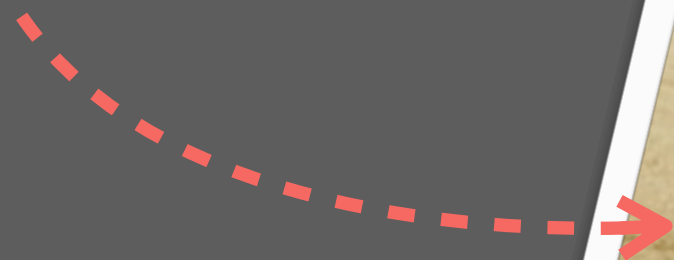


Developer ^{on} Test





*So the developers are
doing all the work?*





QA

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

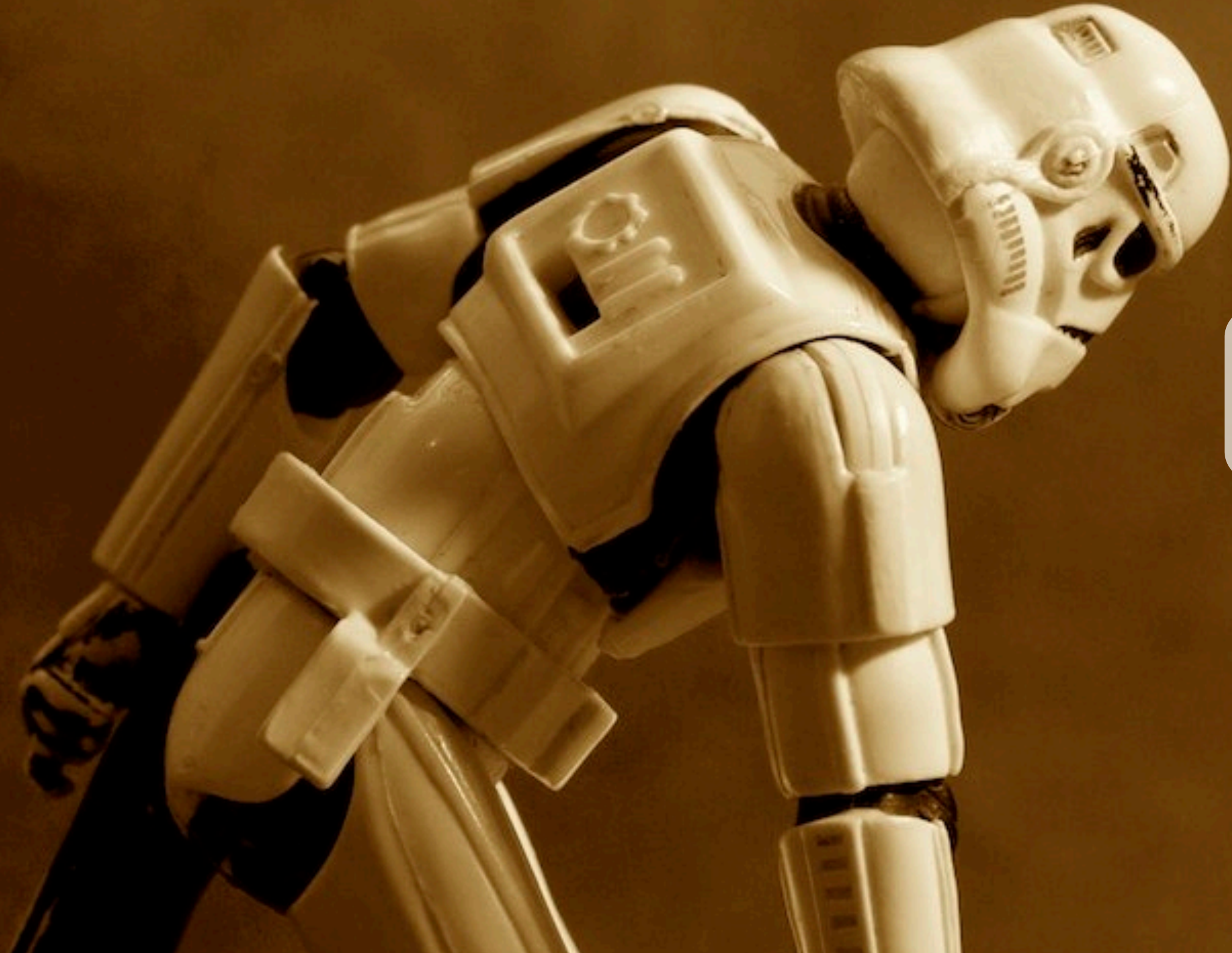
Quality is everybody's responsibility. QA employees help and train developers to become better tester, creating test data, investigating in new test tools and working on test strategies.



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



1. Training



2. Pairing

3. Split Sessions



4. Test Recipe



5. Blitz Test



6. Bug Hunter





Quality is everybody's responsibility



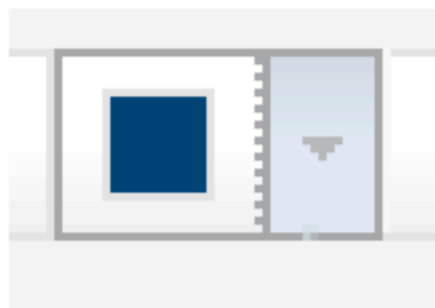
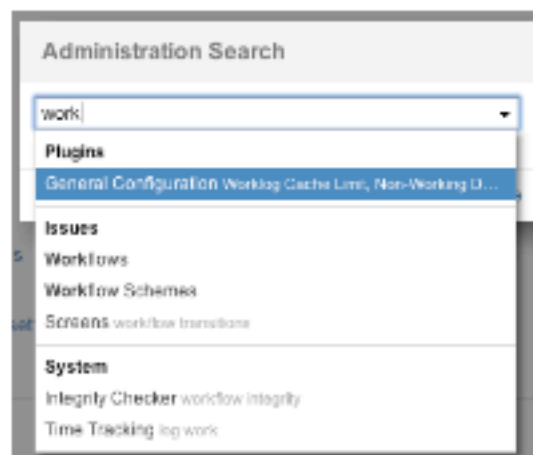
Atlassian & *Design(er)*





Why should we have designer?

▼ Atlassian Menu Gallery





12 designer

250 engineers

600 staff

2,000 ecosystem developer

23,000 customers

few million users

many million their users, incl. mum



Design Workshop





Developers

Designers

are

Designer

Developers



removing friction



Designer in code

are Developers are
Designers



Kick-Ass developers work
together as **one team**





Kick-Ass

Collaboration

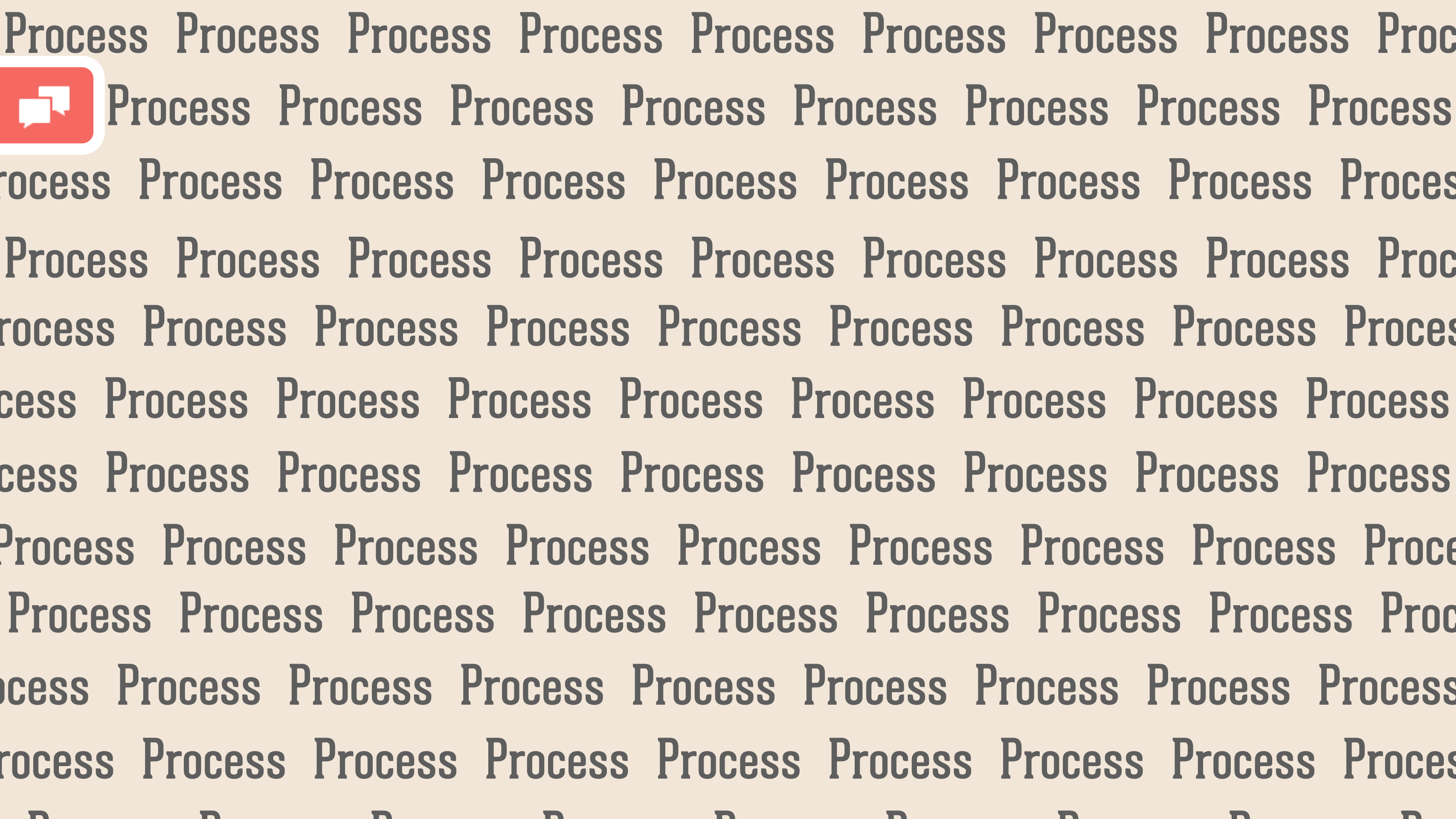


Lonesome Cowboy Coder



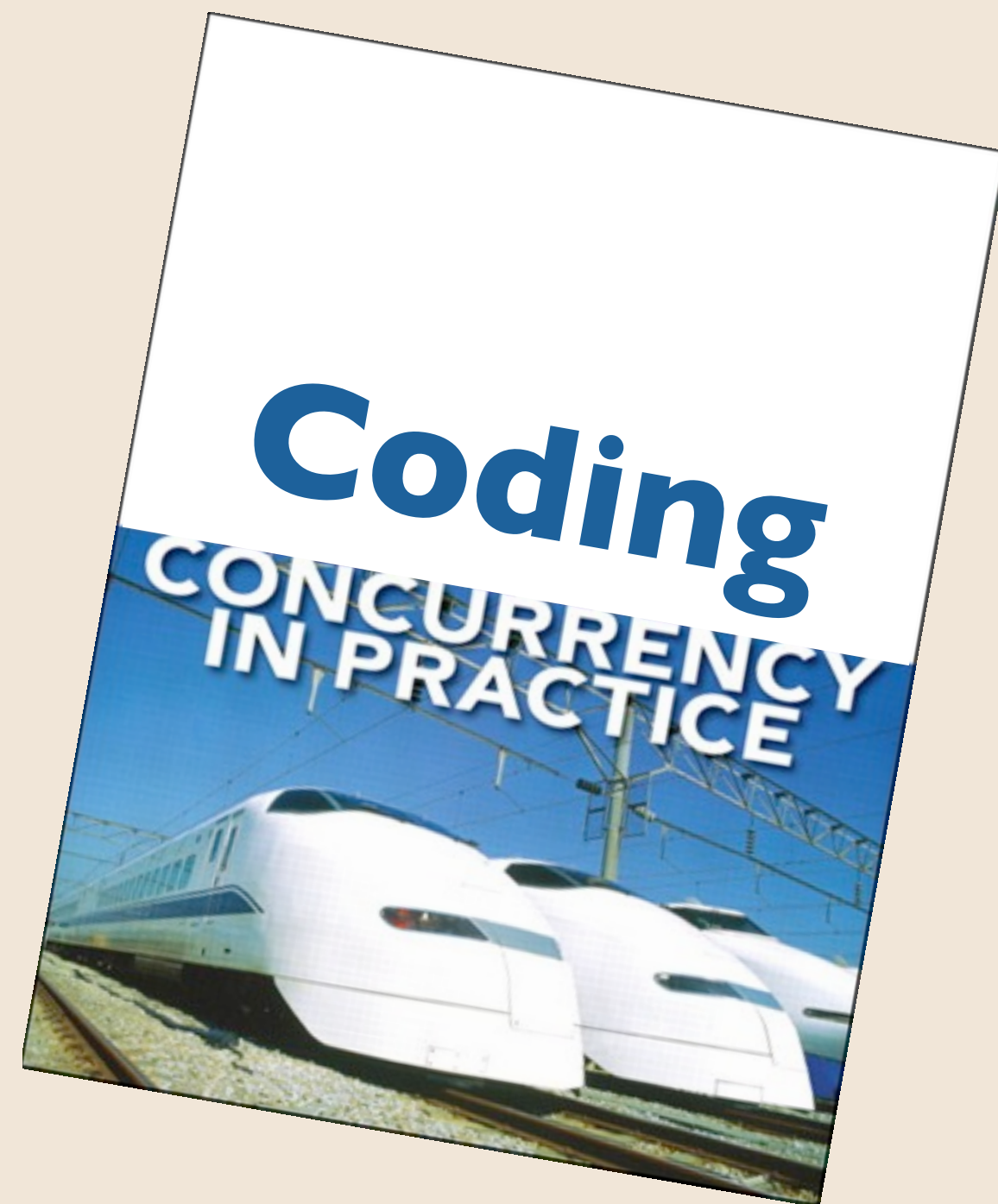
The **trouble** starts
with the **team**







Fast + Simple
Workflow
For Parallel Coding





A branch

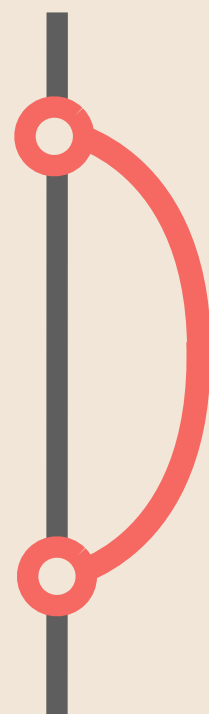
for every task





Branches

have short lives

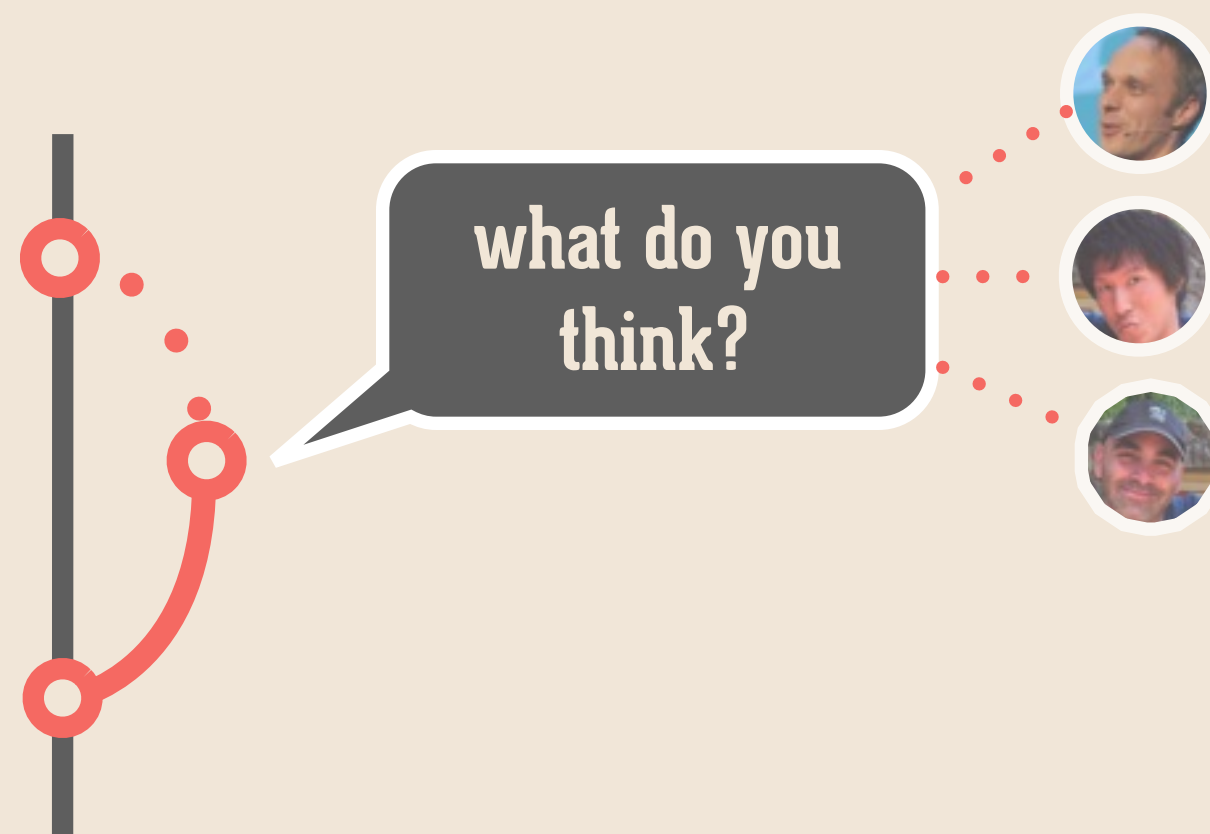


average 2 days



Pull Requests

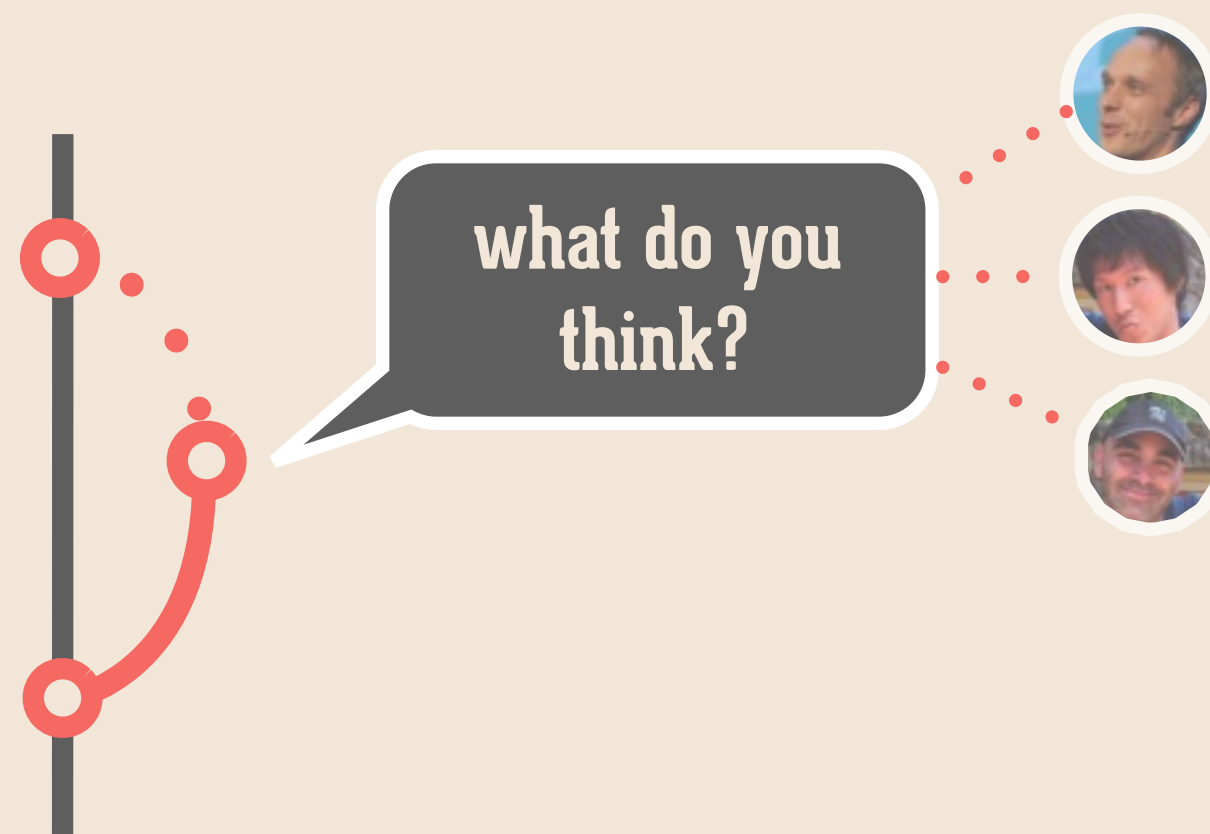
can improve your code quality





Pull Requests

help with collective code ownership





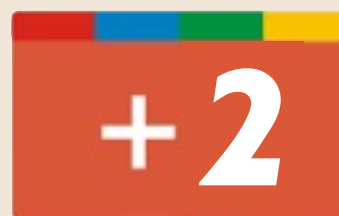
Pull Requests

makes you feel better





fast approvals

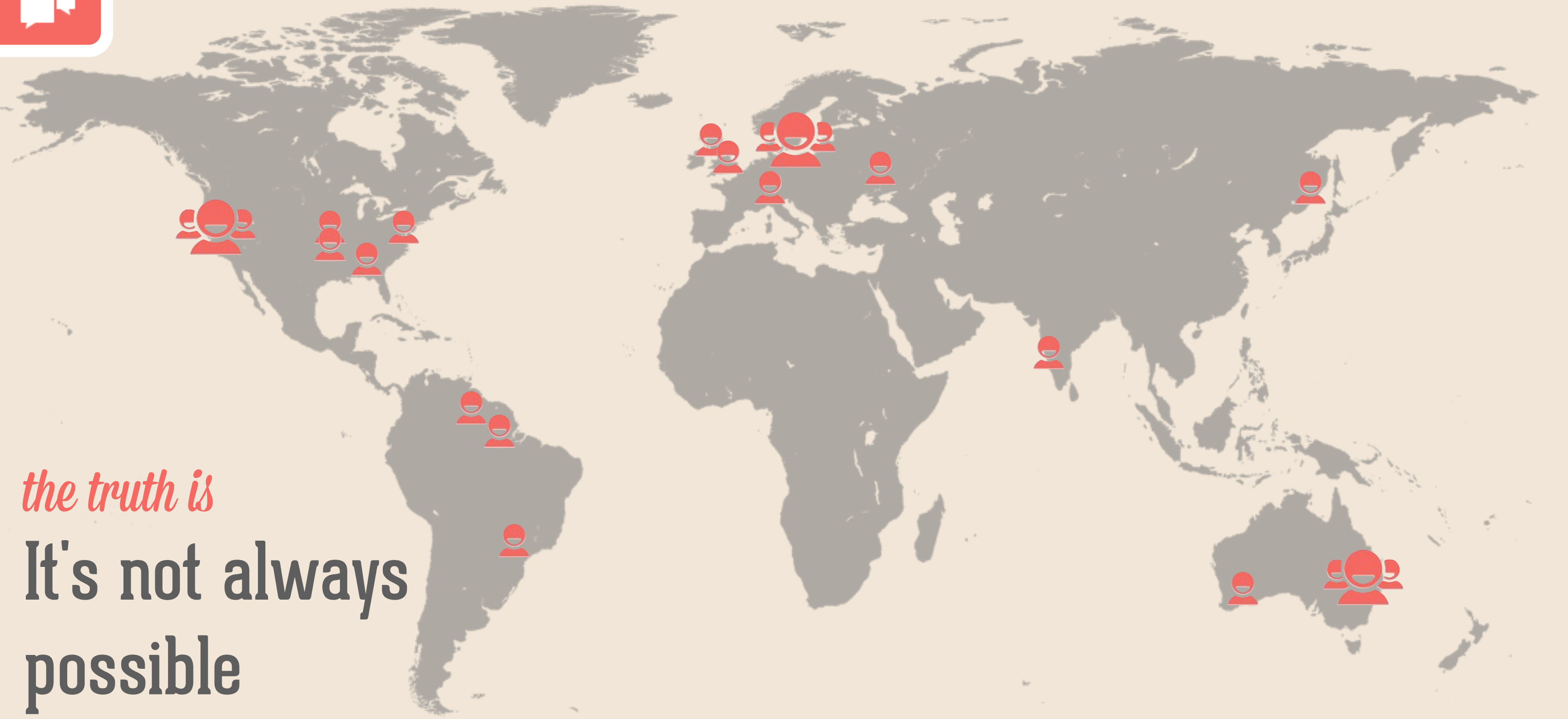


moving fast





we prefer
**Collocated
Teams**



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



Where
do you work best?

it depends



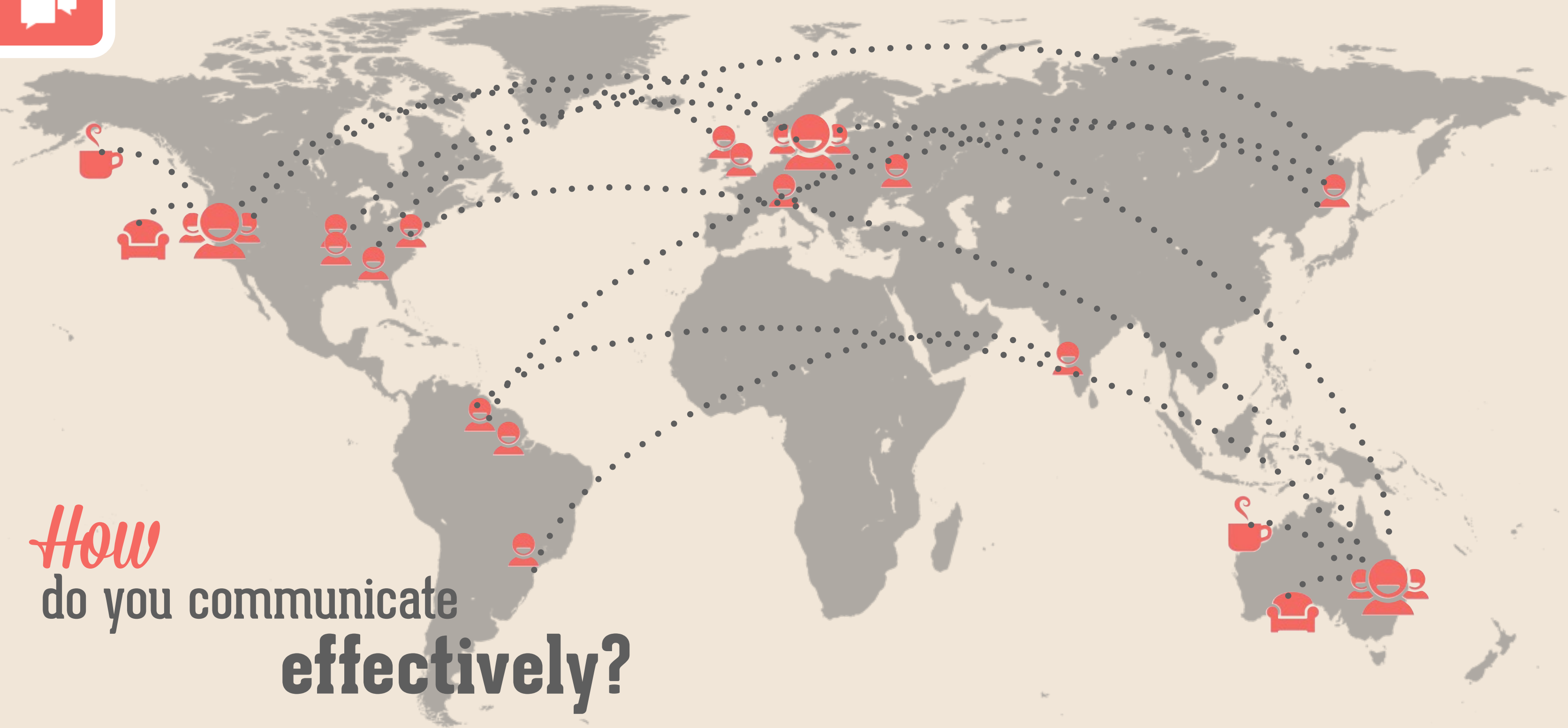
...in the office?



...in the coffee bar next door?



...on your couch at home?



How
do you communicate
effectively?



just kidding

offline

Emails



one to many

asynchronous

add people



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**



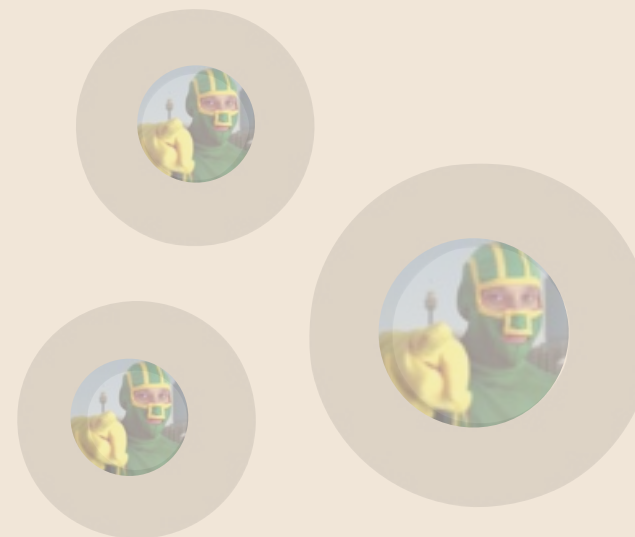
can **pull** people into the conversation

with ease



Just @mention someone





Kick-Ass developers wants to **communicate**

fast





From

Idea

To

User Story





meeting disease



The biggest **time waster** at work are

meetings



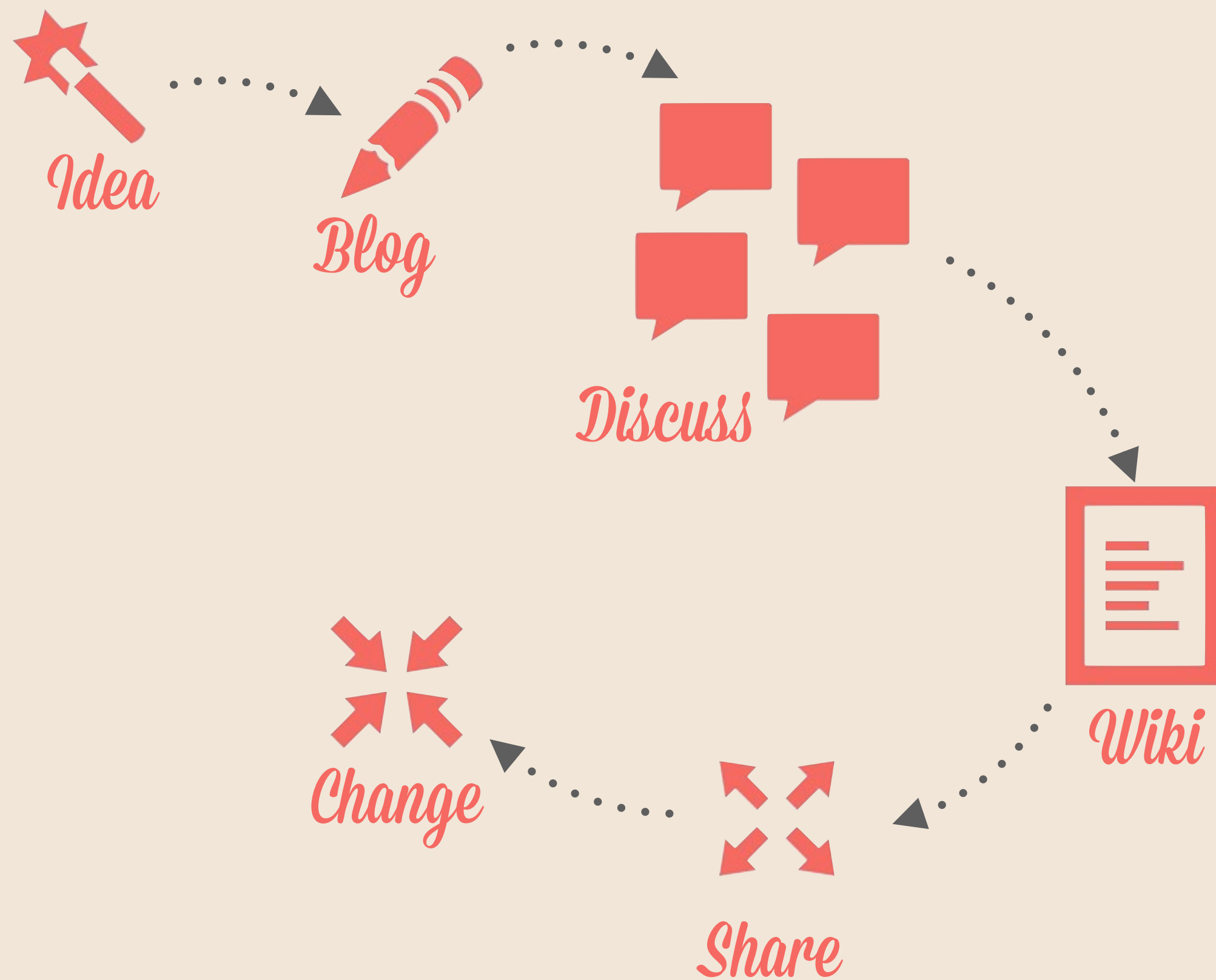
1/2 of all
meetings
are considered wasted*

* <http://business.salary.com/why-how-your-employees-are-wasting-time-at-work/>



Word







remote

less friction



one truth

fast



Choose your tools wisely

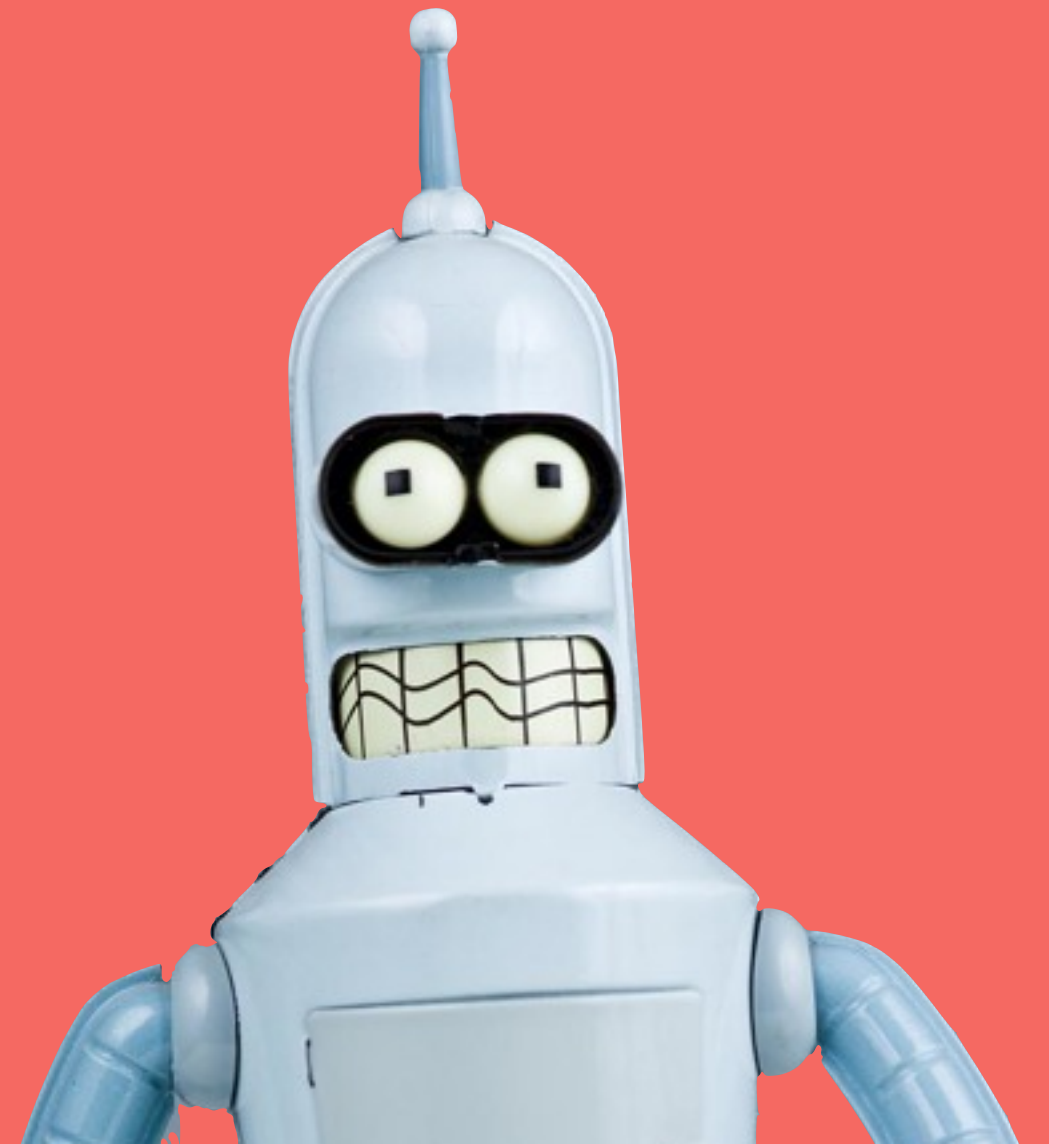


Kick-Ass developers wants to
remove collaboration **friction**
by having simple workflows



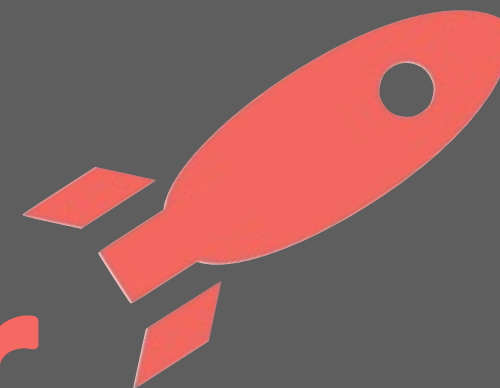


Kick-Ass *Automation*





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



automating their work

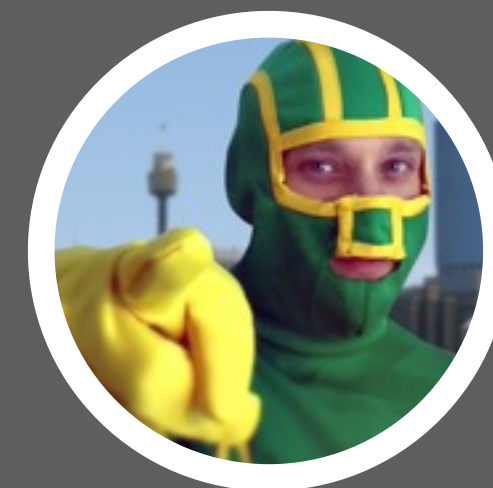


How much time do you spend a week
to **automate** your software development?





Who is doing continuous integration?



Who
doing **kick-ass** continuous integration



Our **builds**
sucked

took too long

were too complicated

were unstable

missed a concept



Fail Fast





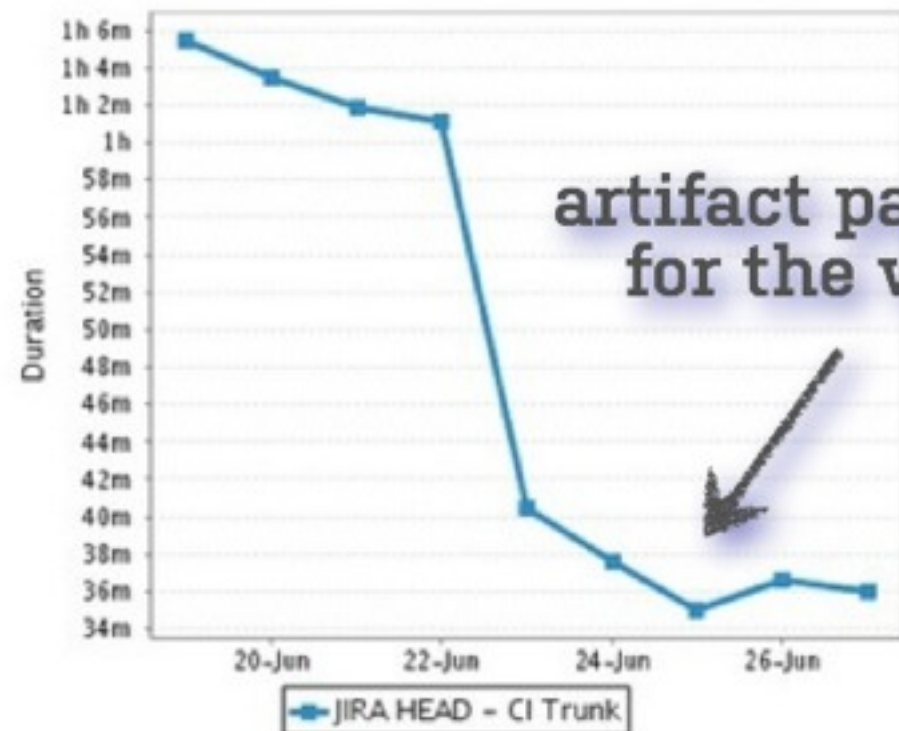
4 things how to tame monster builds and **kick-ass** again

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





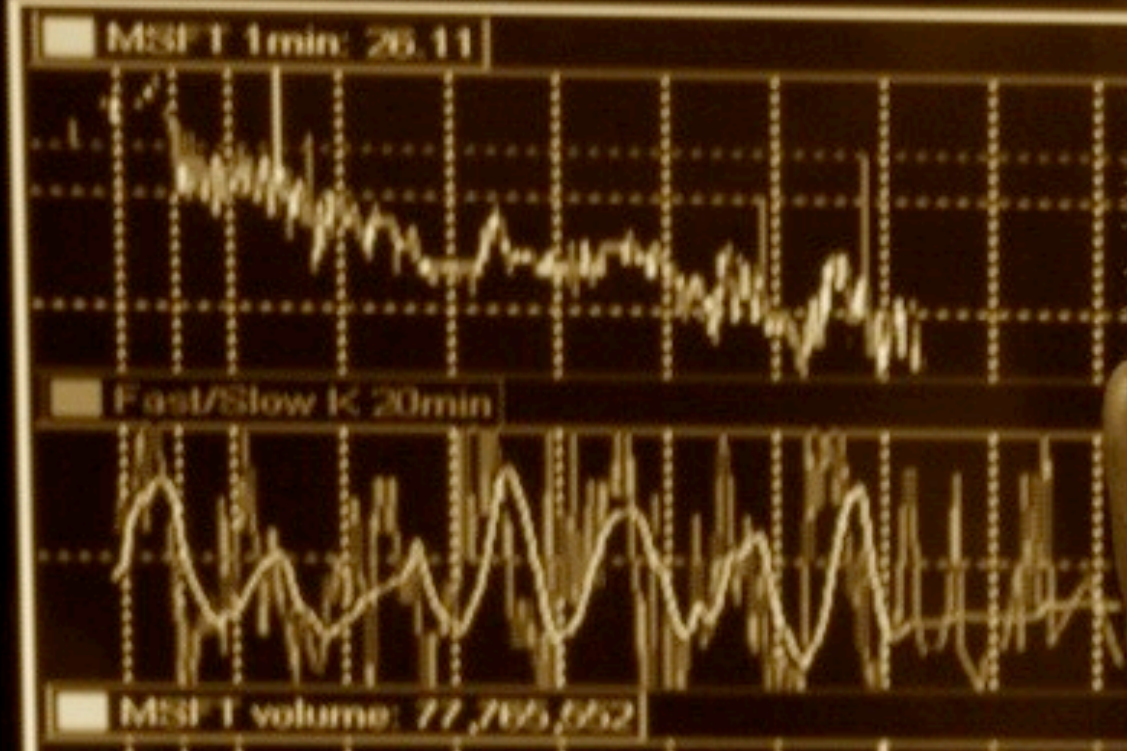
2. Parallelize Tests

3. Have a build strategy

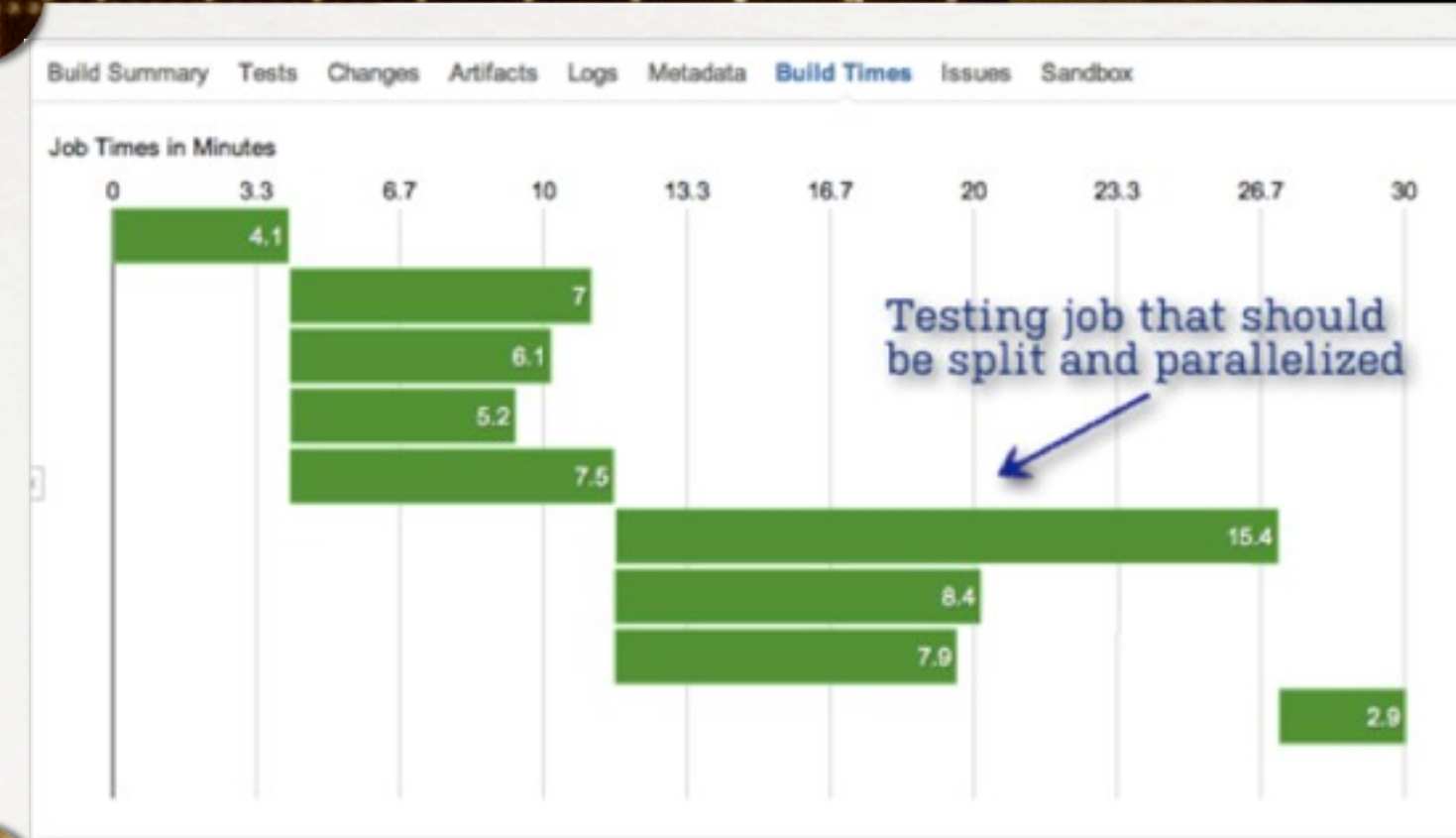
performance tests <...
nightly builds

platform tests <...
less frequent (every hour)

building + unit & UI tests <...
every check in



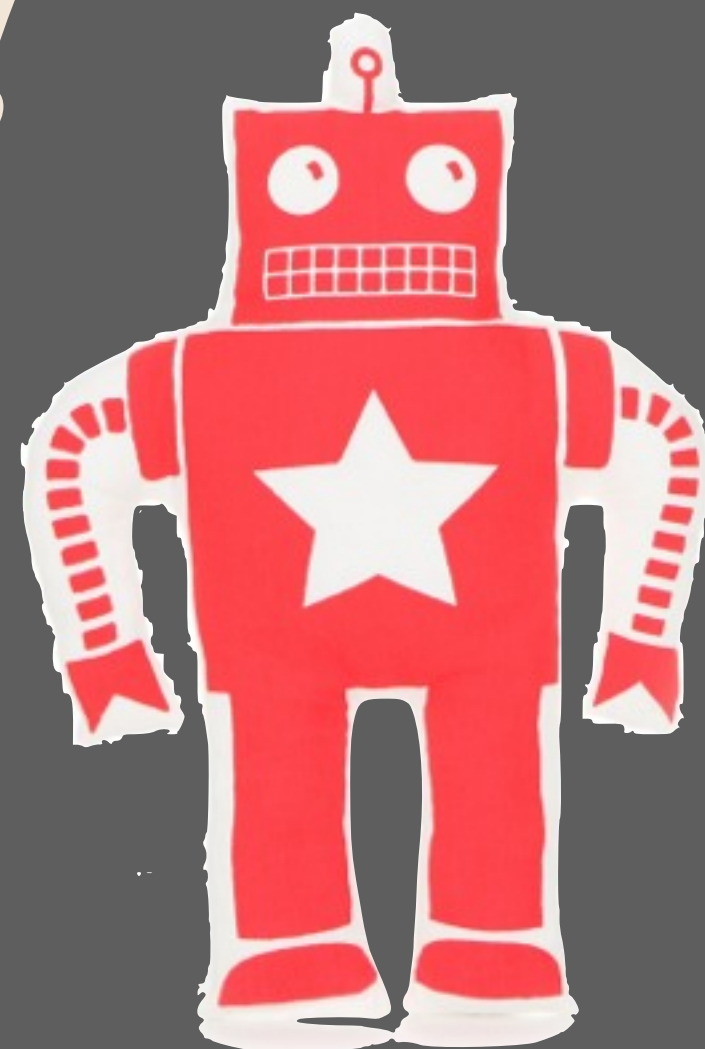
		COMP 2055.71 +3.18 000		11:09:57	
Scope	Bid	Ask			
0.06	26.17	26.18	MSFT	26.17 x 26.17	BRUT Joins B
0.16	23.25	23.25	MSFT	26.17 x 26.18	ISLD Lifts Off
0.03	4.21	4.22	MSFT	26.17 x 26.18	ISLD Joins B
0.26	15.25	15.28	SUNW	4.21 x 4.22	TMBR Up Off A
			MSFT	26.17 x 26.18	NOCI Joins B
			MSFT	26.17 x 26.18	TRAC Joins B
			MSFT	26.17 x 26.18	AMEX Uptick
			INTC	23.25 x 23.25	MVSI Leaves
			SUNW	4.21 x 4.22	ADFN Joins B
			Shrs: 16.5K NPL: +12316		
4500	INTC	23.24			
-5400	SUNW	4.6	11:09	5.941	100 C
4500	INTC	23.24	11:09	5.942	325 C
-5400	SUNW	4.6	11:09	5.940	386 P
4500	INTC	23.24	11:09	5.940	114 P
-5400	SUNW	4.6	11:09	5.940	700 O
500	UTSI	15.11	11:09	5.950	1500 O
			11:09	5.950	1000 O



4. Look at your stats!



*More automation
awesomeness!*





Flakey Test Detector



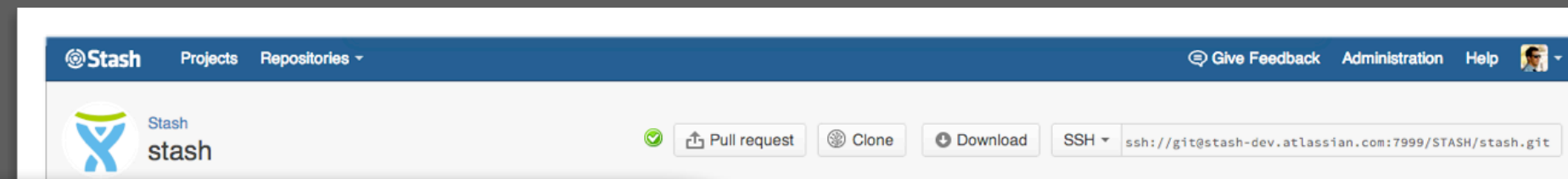


Wallboards





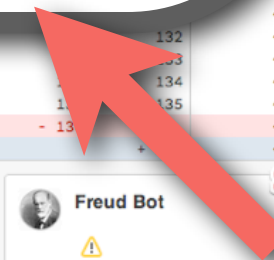
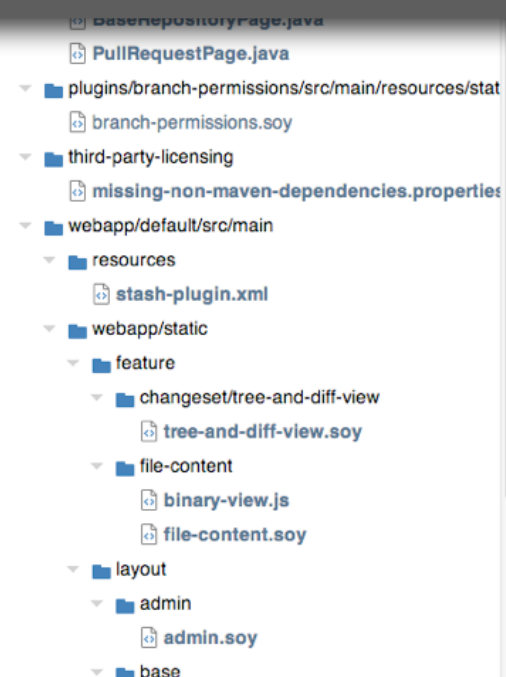
Freud Bot



Freud Bot

It looks like you have changed the version of a dependency or added a new one. You must run the licence check to ensure the license is valid and check any transitive dependencies by following our [Licensing Procedure](#). You MUST update the affected license files in the [Stash license module](#). Please reply indicating you have completed this proceure and validated the licenses are in accordance with [Atlassian 3rd party code policy](#).

Reply • Delete • Action • 20 hours ago



Static analysis of your pull requests? Yes thanks!



Freud Bot



It looks like you have changed the version of a dependency or added a new one. You must run the licence check to ensure the license is valid and check any transitive dependencies by following our [Licensing Procedure](#). You MUST update the affected license files in the [Stash license module](#). Please reply indicating you have completed this proceure and validated the licenses are in accordance with [Atlassian 3rd party code policy](#).

Reply • Delete • Action • 20 hours ago

137	137	<aks.version>1.2</aks.version>
138	138	<aii.qunit.version>0.19</aii.qunit.version>
139	139	<crowd.embedded.version>1.6-stash-m5</crowd.embedded.version>
140	140	<crowd.version>2.5.3-m1</crowd.version>
141	141	<event.version>2.3.0</event.version>
142	142	<fugue.version>1.1</fugue.version>
143	143	<healthcheck.version>1.0.0</healthcheck.version>
144	144	<oauth.version>1.7.0</oauth.version>
145	145	<platform.version>2.18.0</platform.version>
146	146	<plug.version>2.13.0</plug.version>



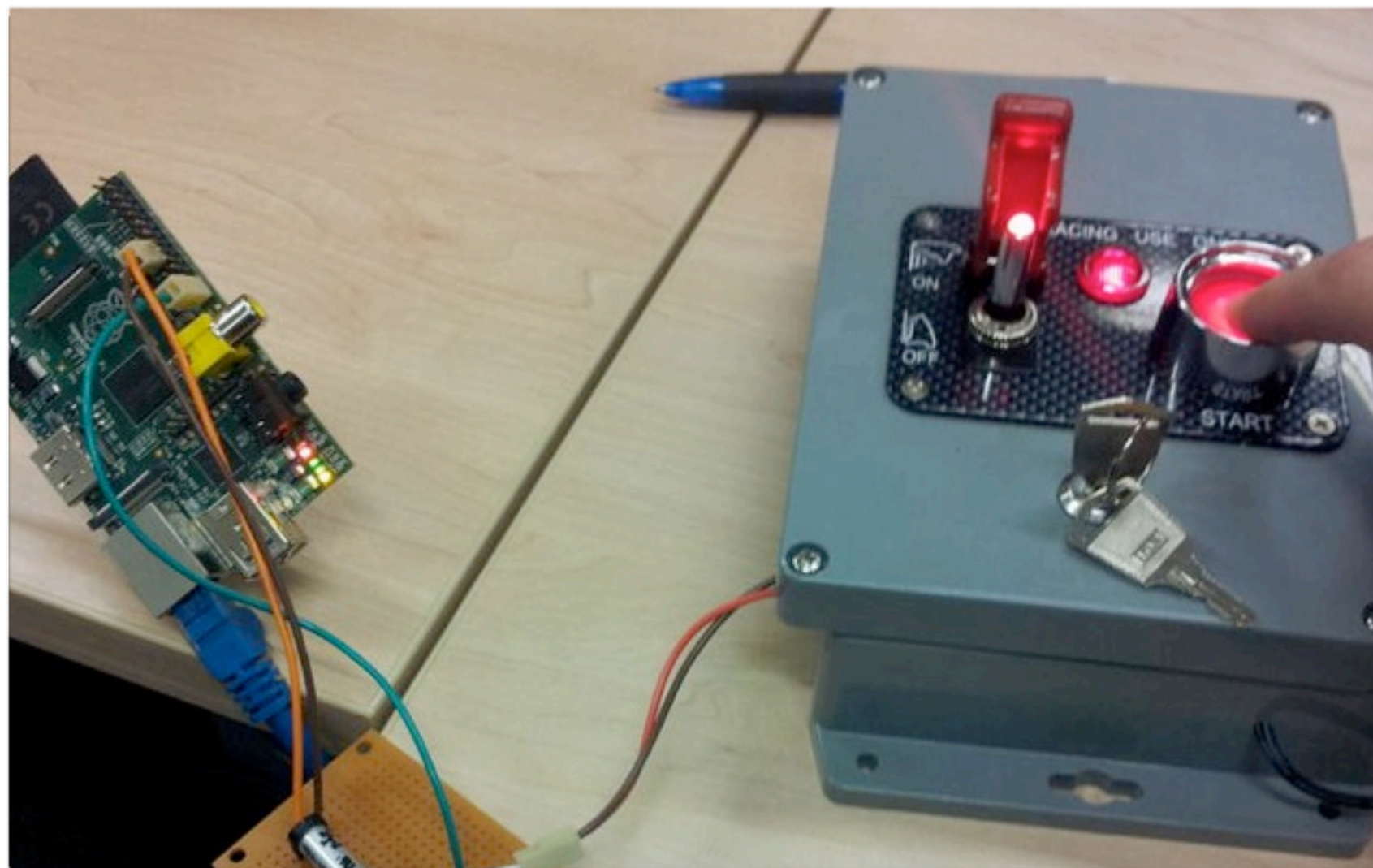
Kick-Ass developers knows that
life is too short for boring tasks



➤ *what can make your job easier?*



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 team

Kick-Ass customers



Is

Agile

dead?

Try the impossible





Share
success & failures



Build a kick-ass culture

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



🕒 50 minutes later...



it's time to **kick ass!**

**The Atlassian Bar
tonight 6pm**



Thanks!

svenpet.com/slides

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