

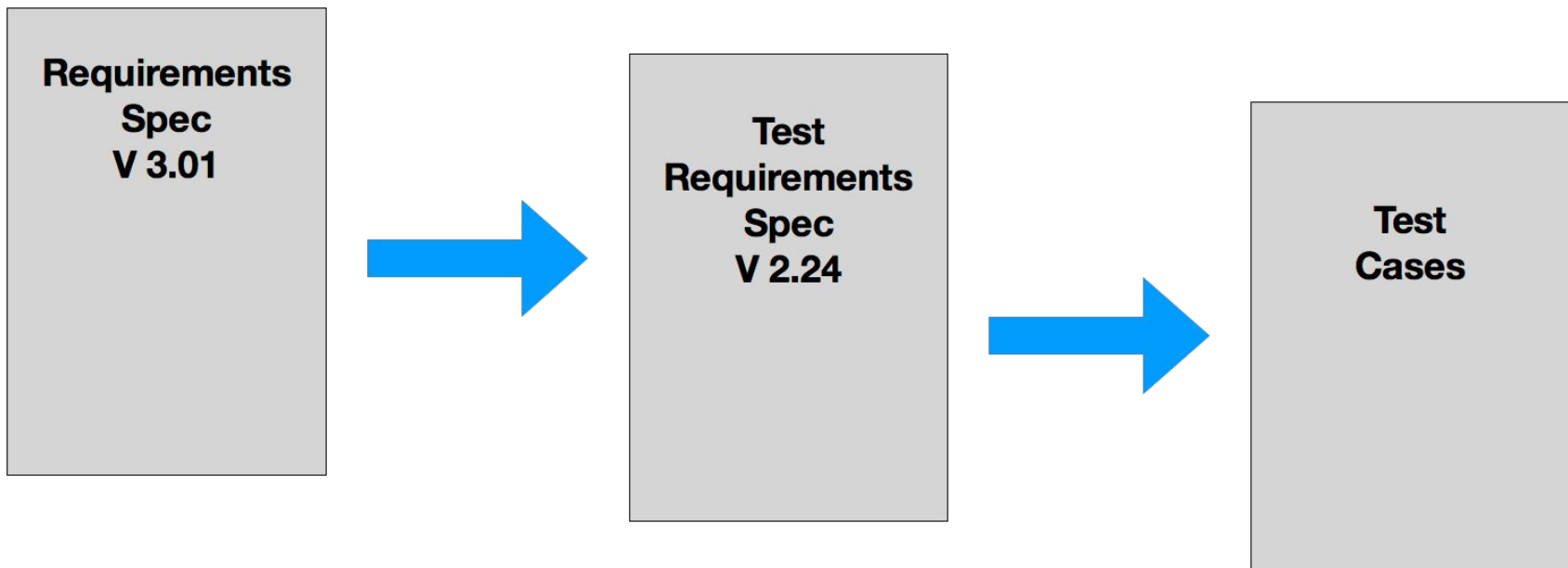
Testing Observability

Amy Phillips

Amy Phillips

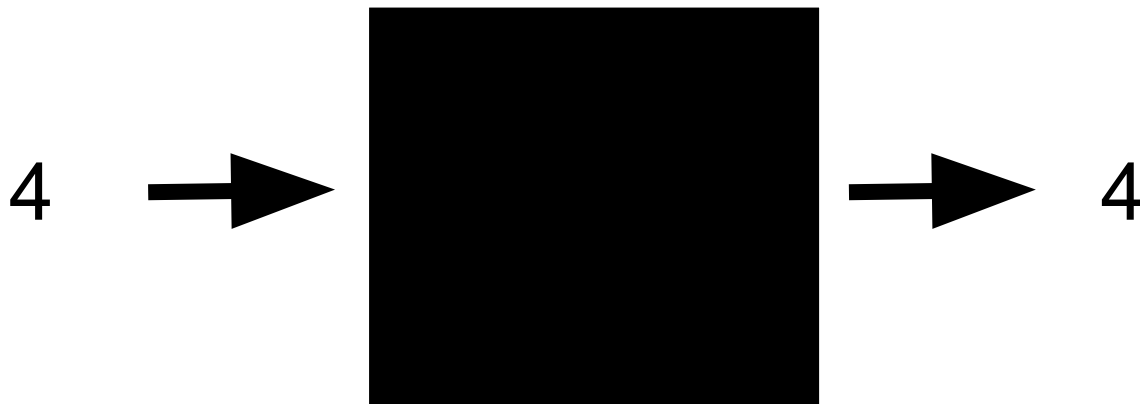
- Engineering Manager at Moo
- Previously manager and tester at Songkick, The Guardian, and Yahoo!
- Can be found @amyjph

The early days



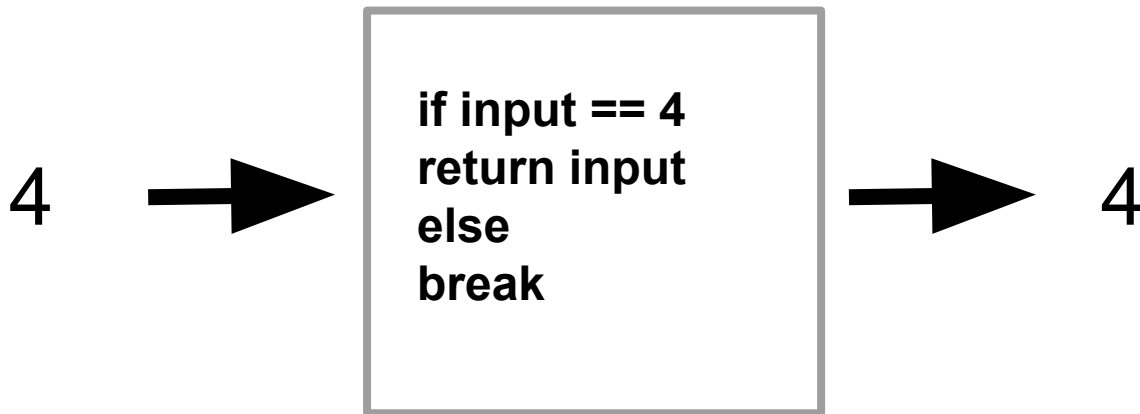
Black box testing

Test case	Expected result	Test result
User saves a value of 4. Retrieve value.	System returns a value of 4	Pass



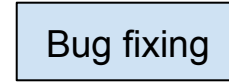
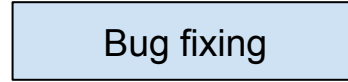
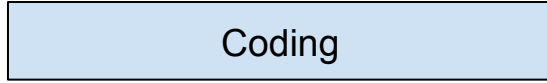
White box testing

Test case	Expected result	Test result
User saves a value of 4. Retrieve value.	System returns a value of 4	Pass



Releases

Build new website

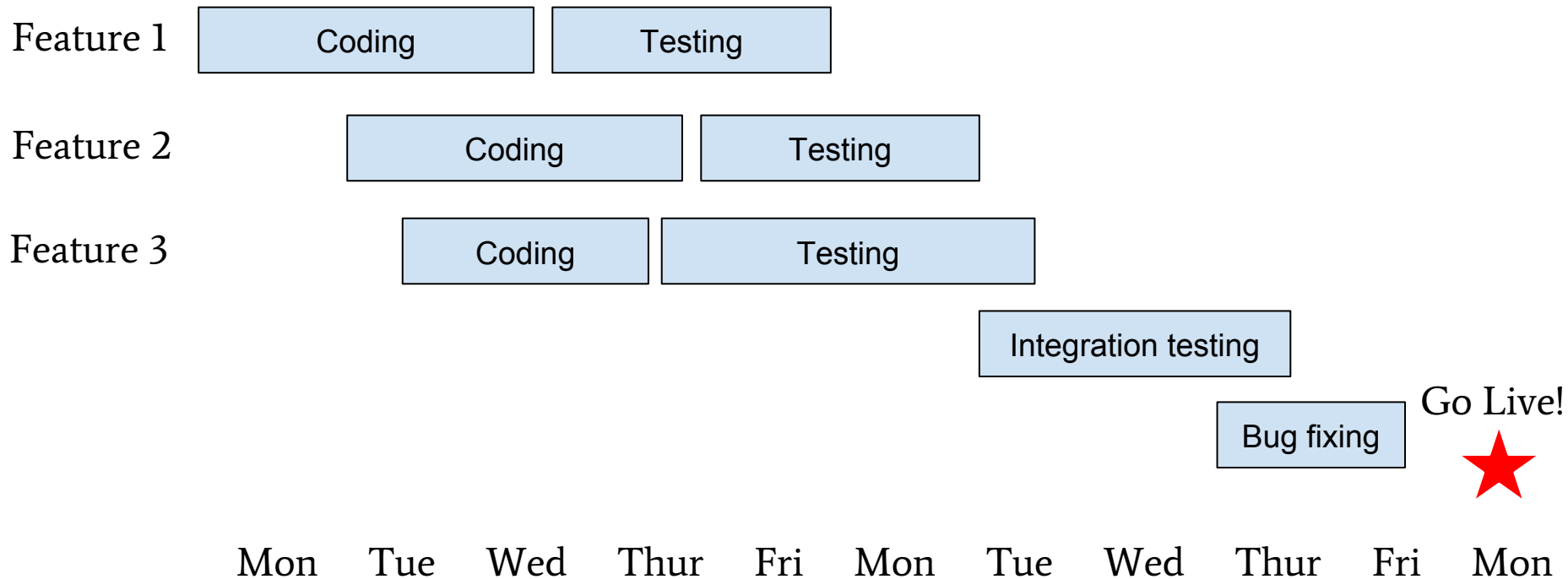


Go Live!

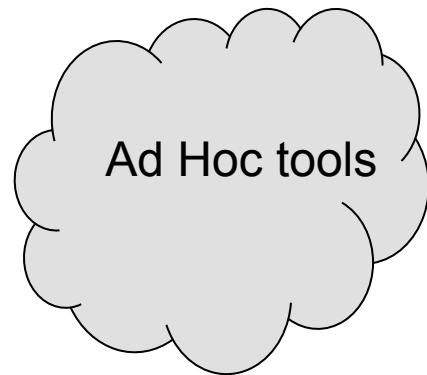
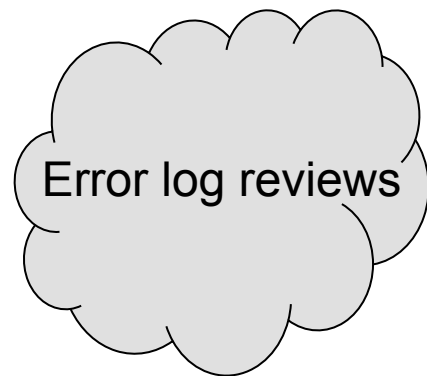
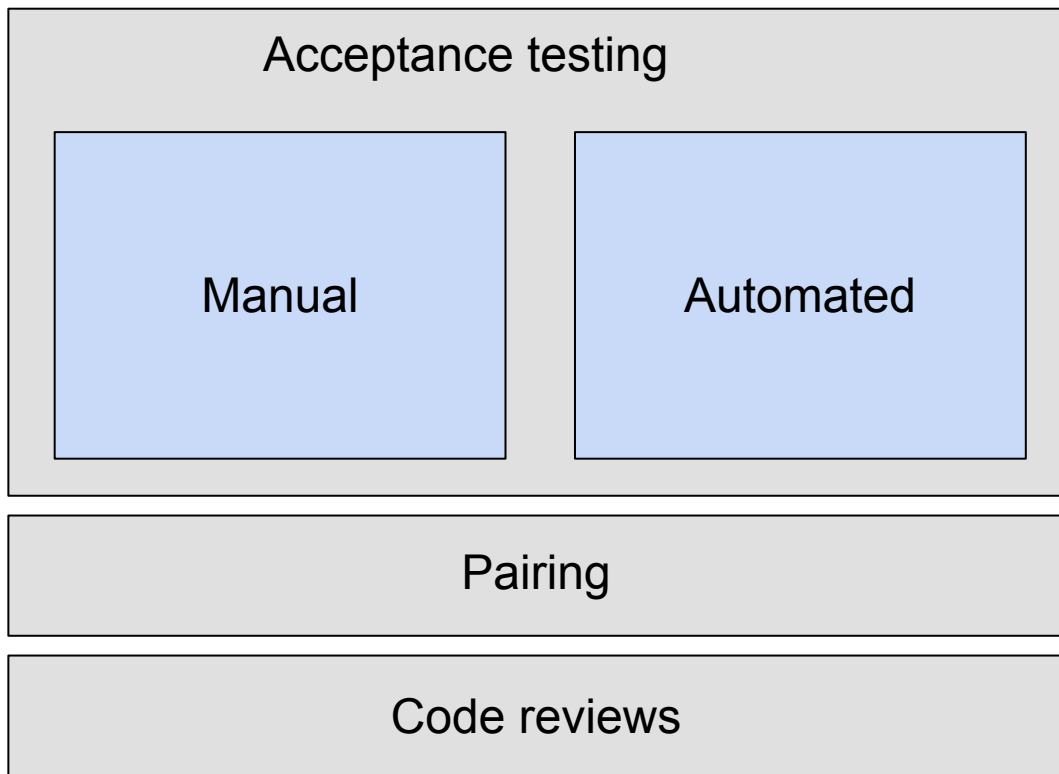


Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

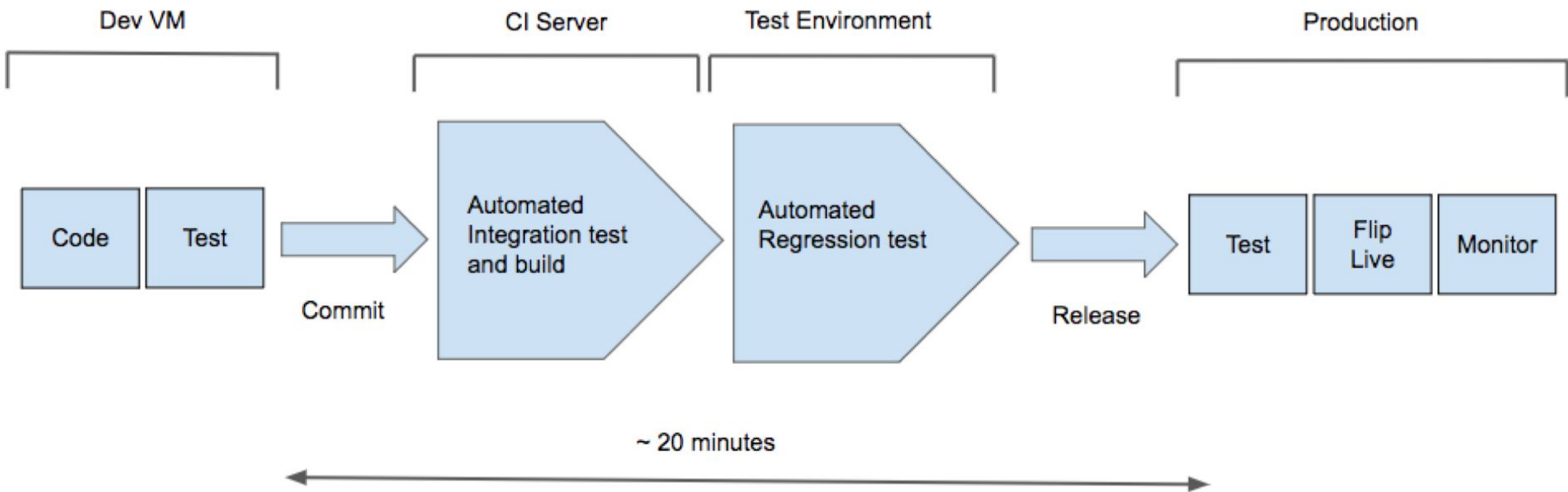
Introducing agile



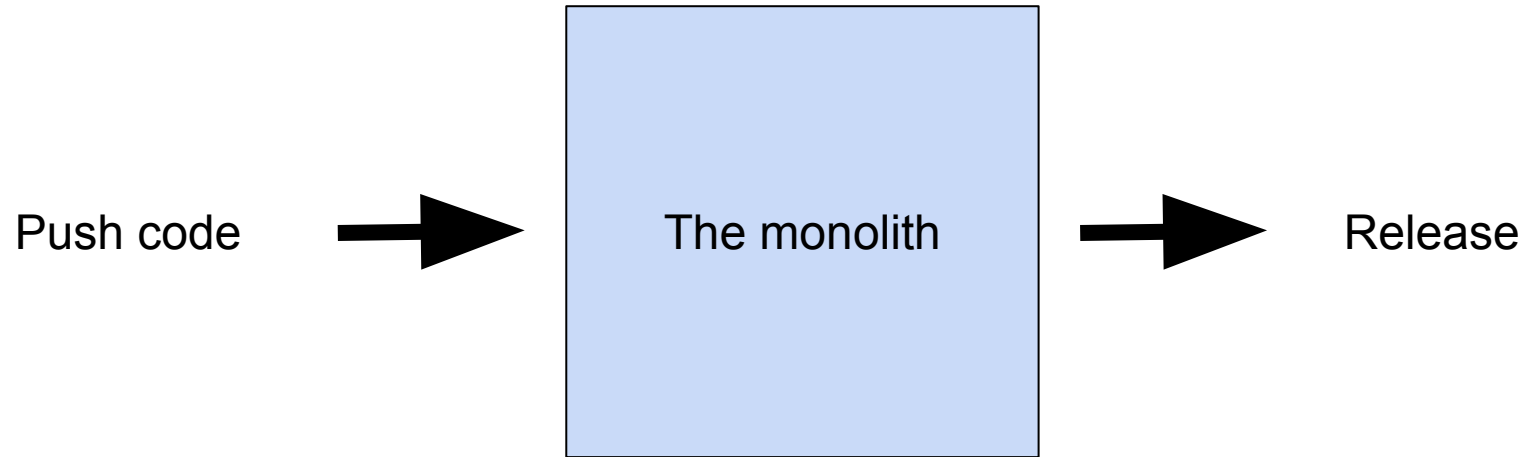
Fluid testing



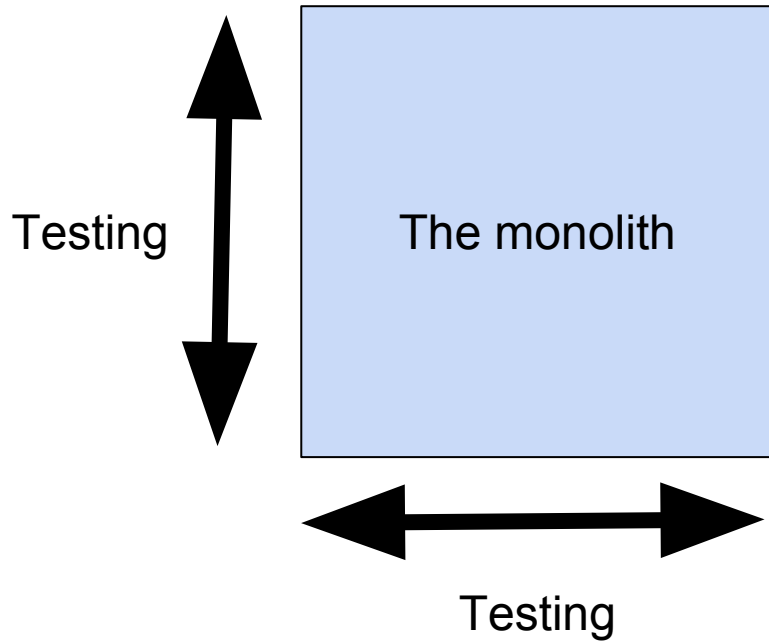
Continuous delivery



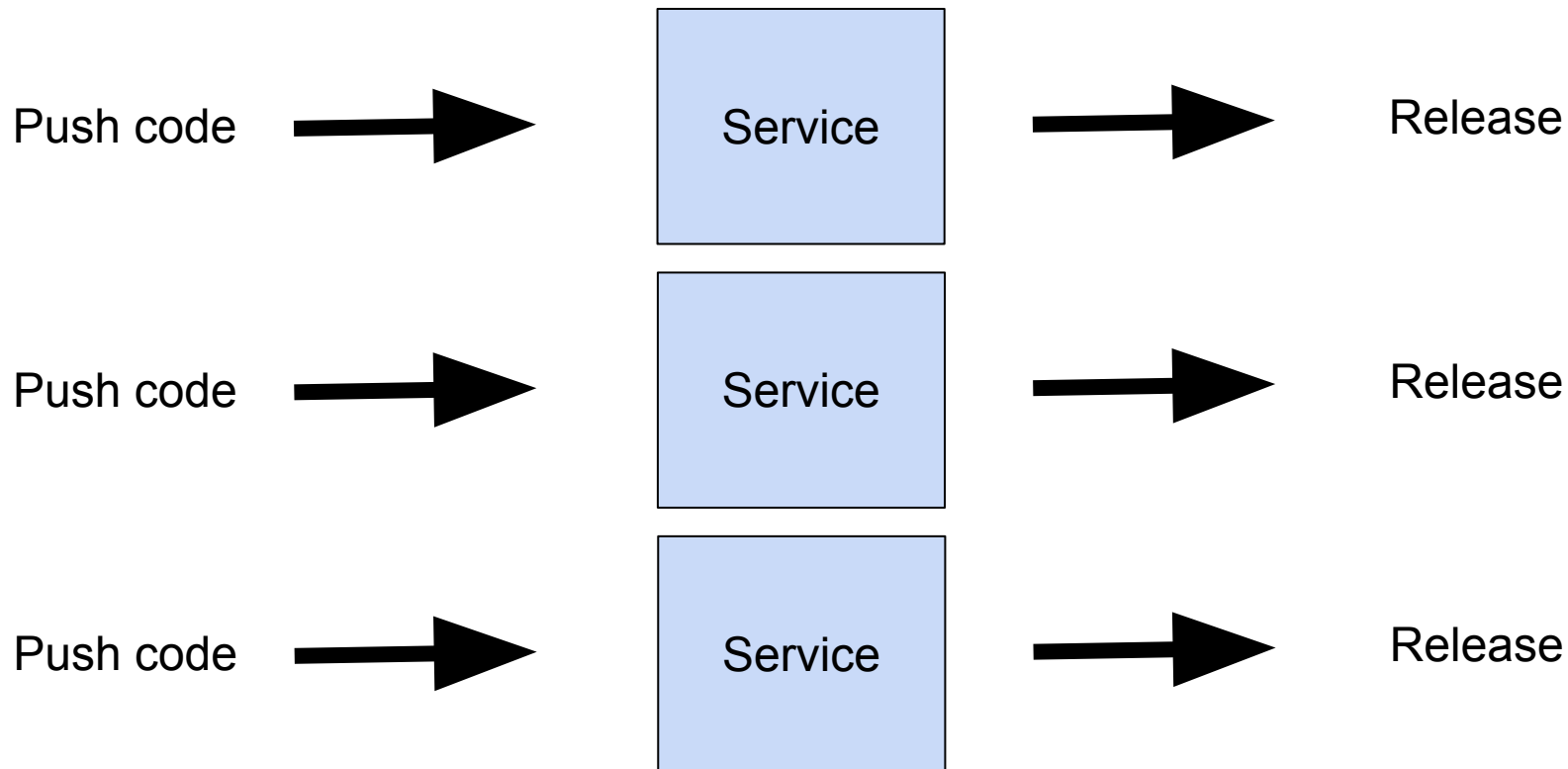
Microservices and the impact on testing



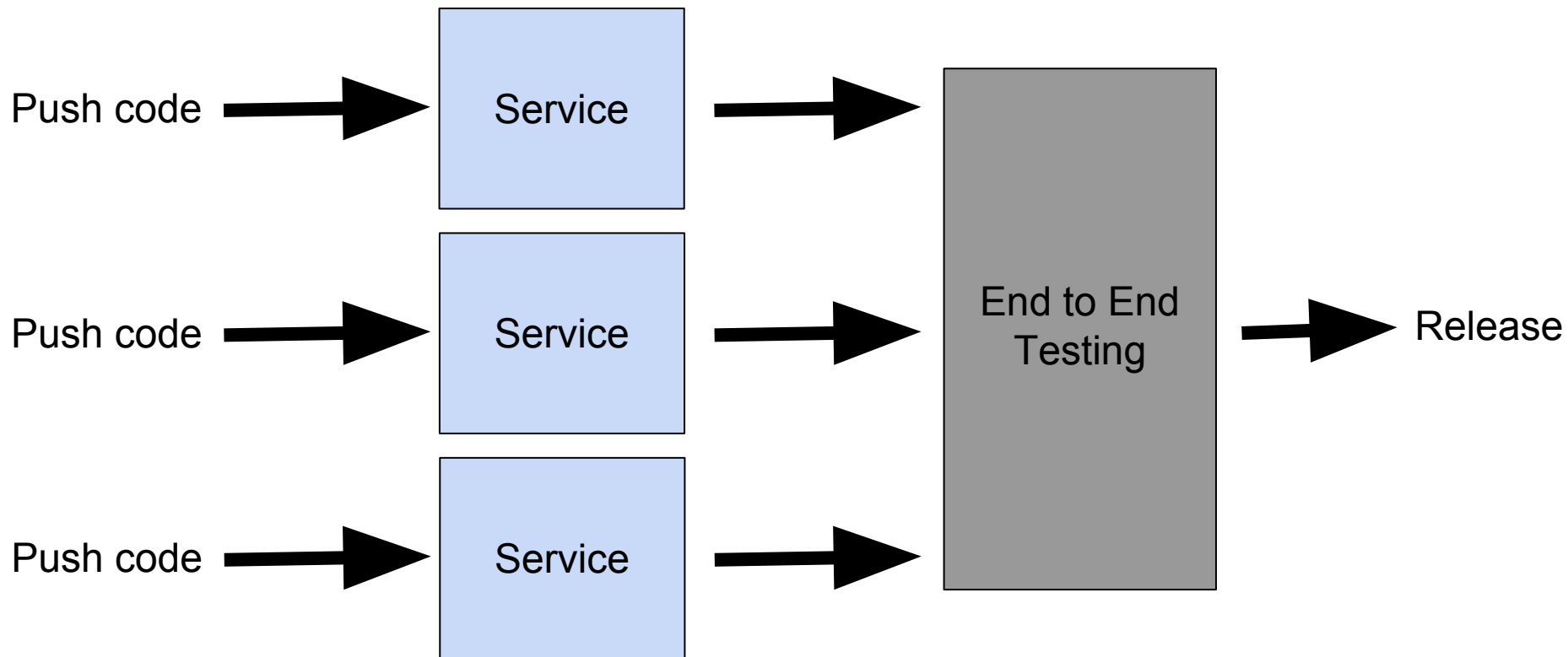
Microservices and the impact on testing



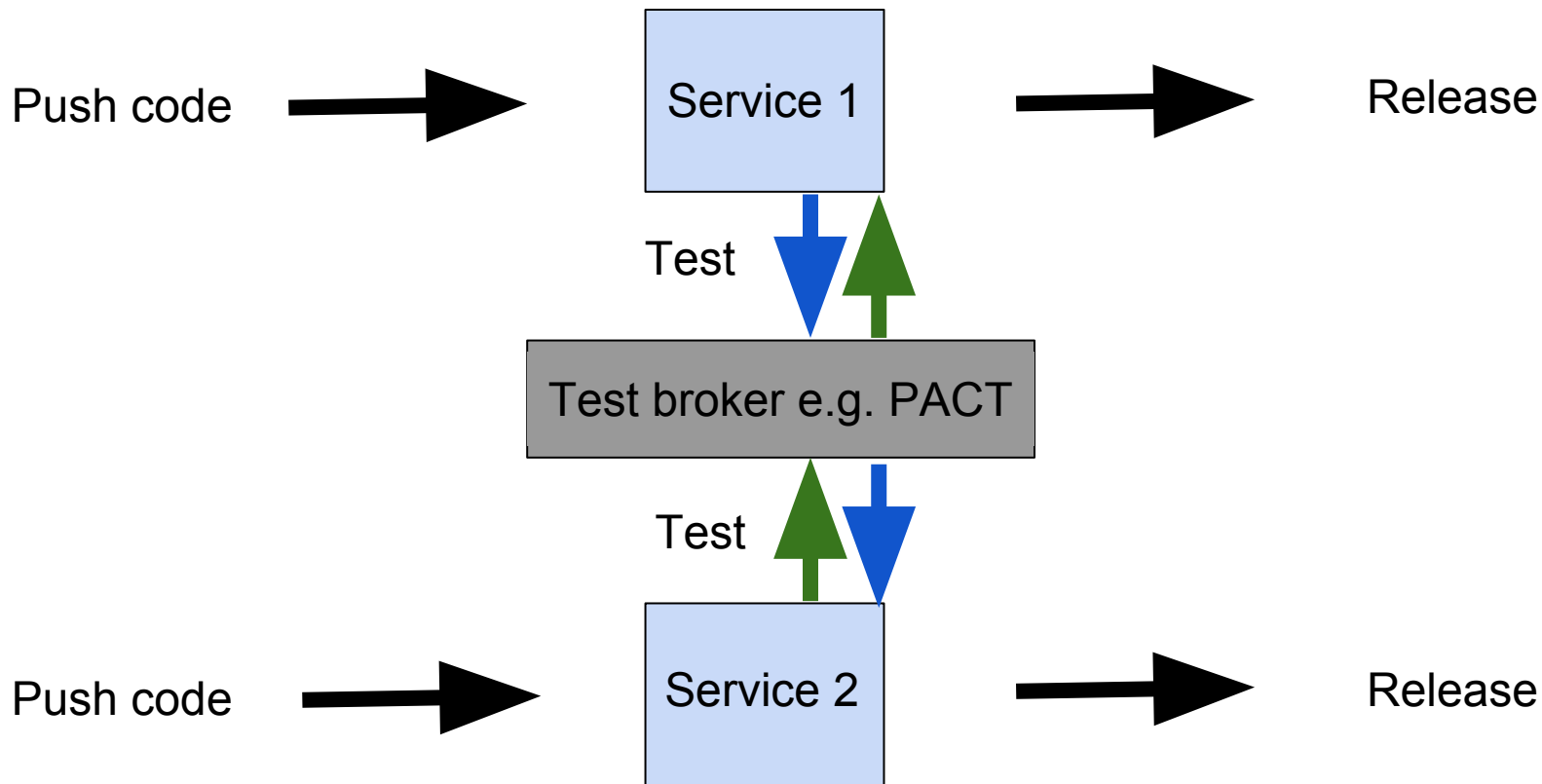
Microservices and the impact on testing



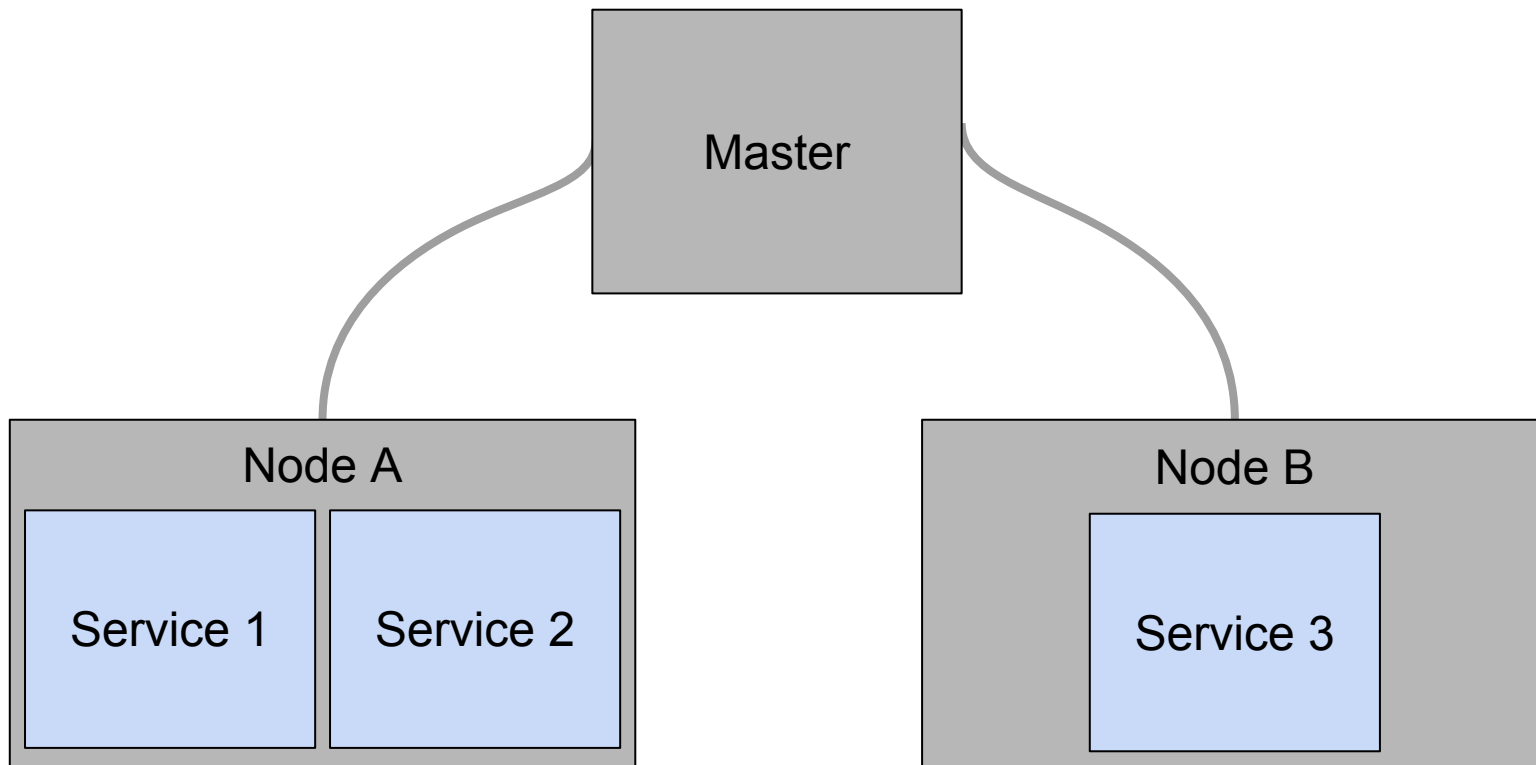
Microservices and the impact on testing



Consumer driven contract testing

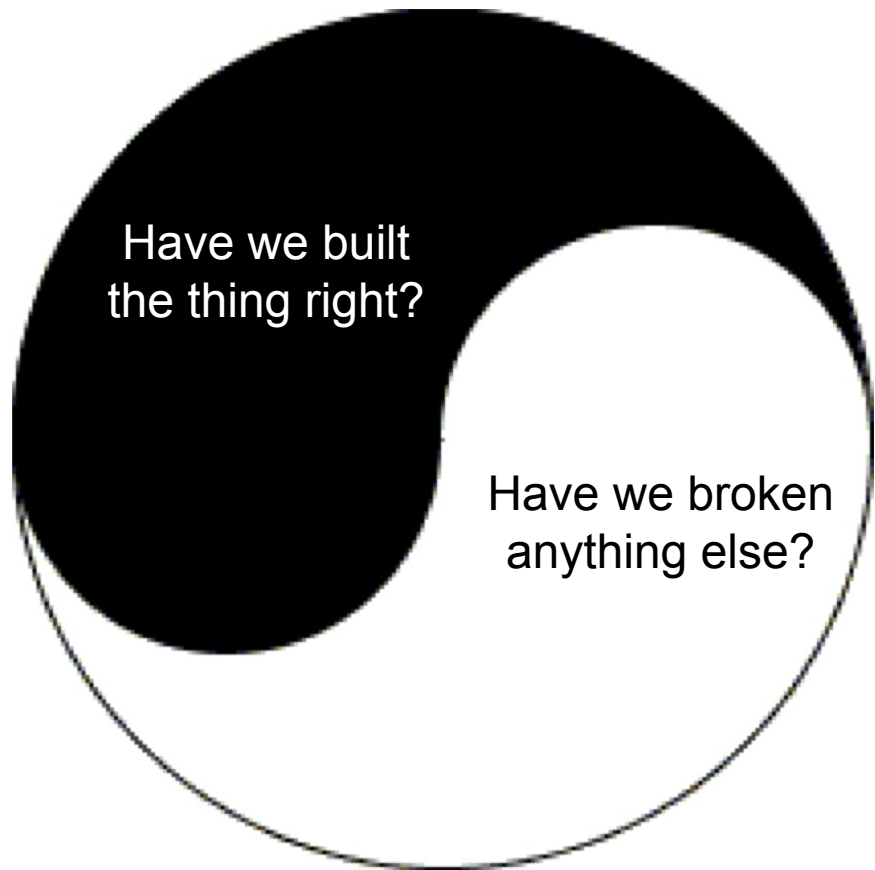


Self healing systems



A quick look at testing

The two sides to testing



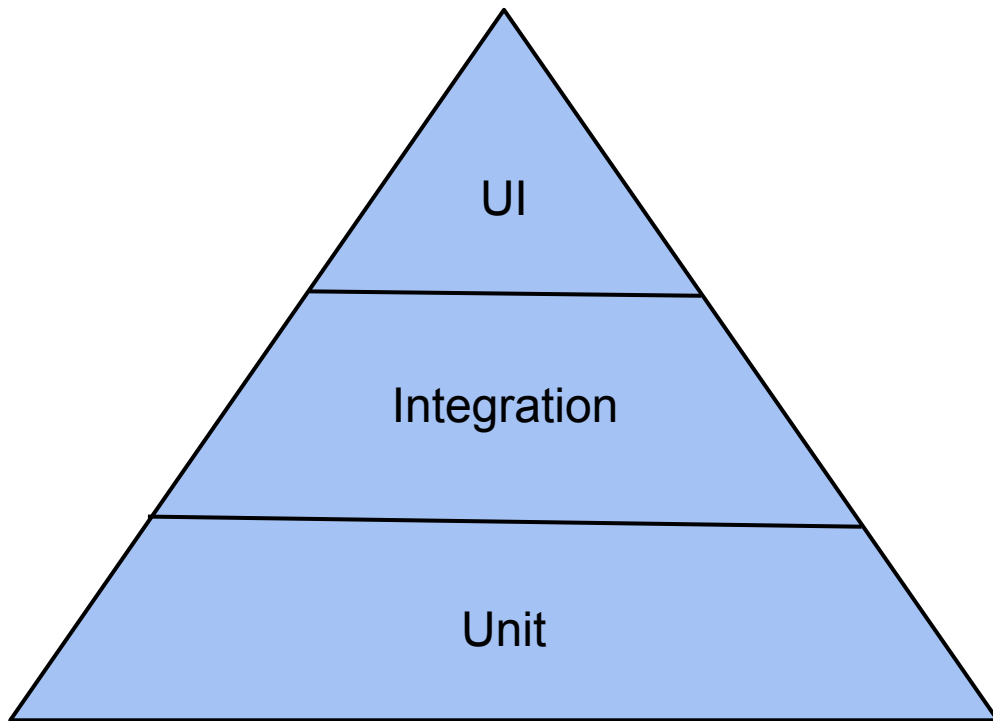
Testing

An **investigation** conducted to gather **information** on the quality of the system or product.

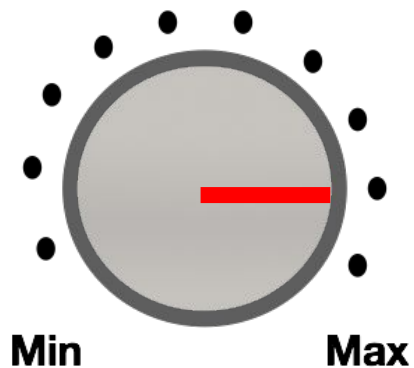
Quality

A quality system meets the
needs of the user.

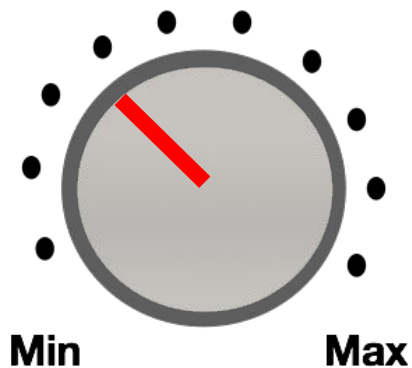
Test pyramid



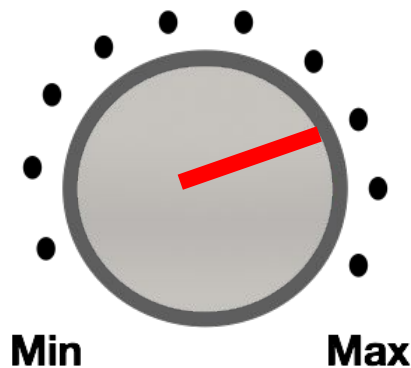
Testing dials



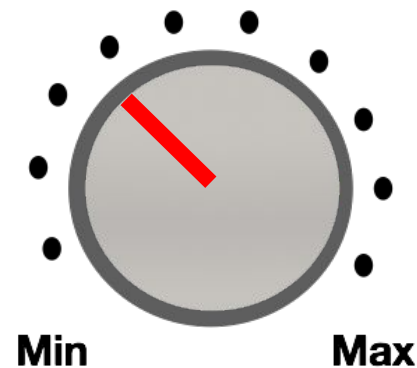
Unit testing



Integration testing

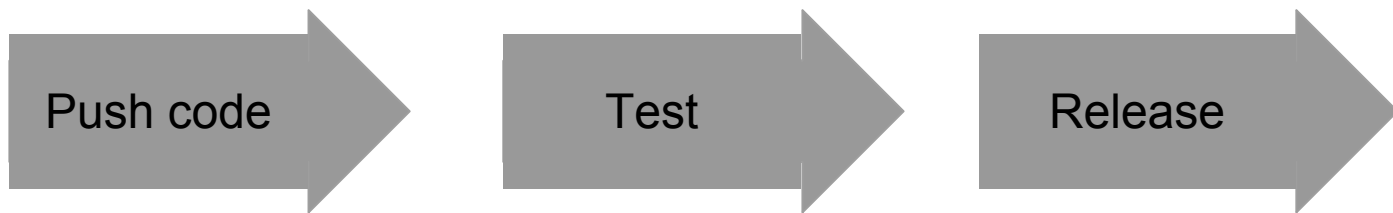


Contract testing



Manual testing

Testing that something works can be hard

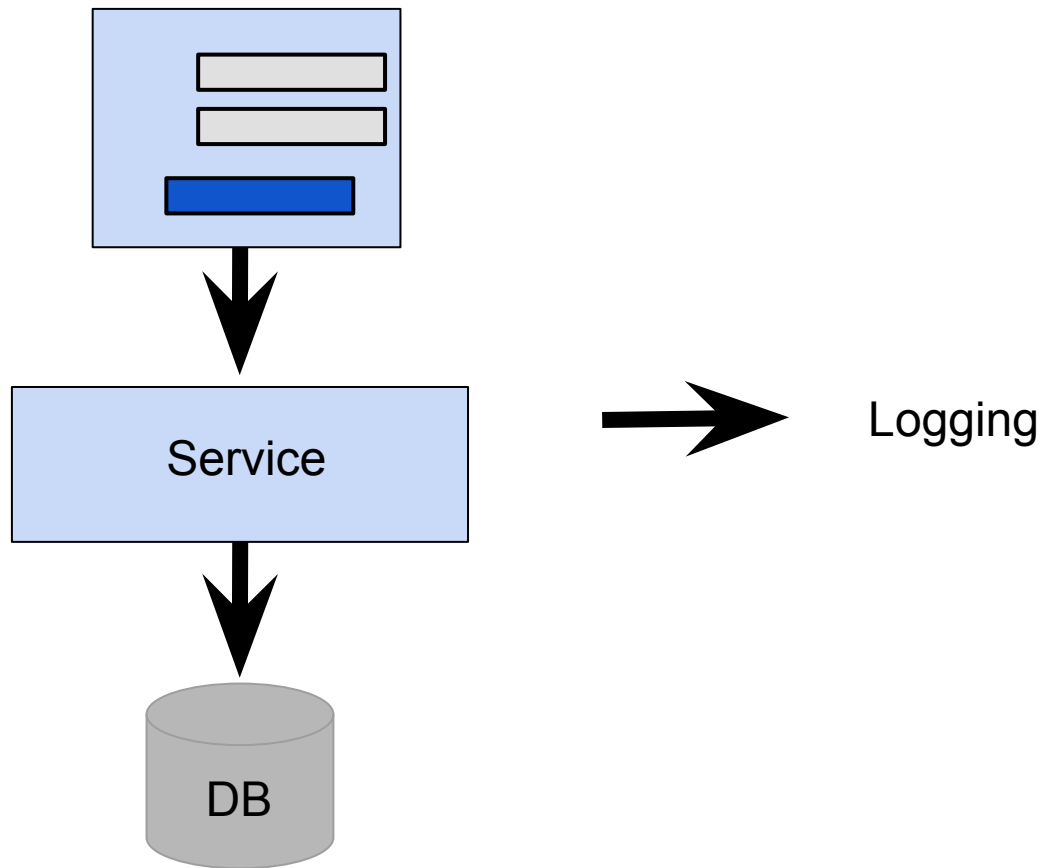


Two problems:

- Process assumes a positive outcome = bug reports or rework
- Forced failure states can be unrealistic = limited value

Observability instead of testing?

Retrospectively adding logging



**How will we know when it isn't
working?**

How would you test observability?

Monitoring

Alerting

Tracing

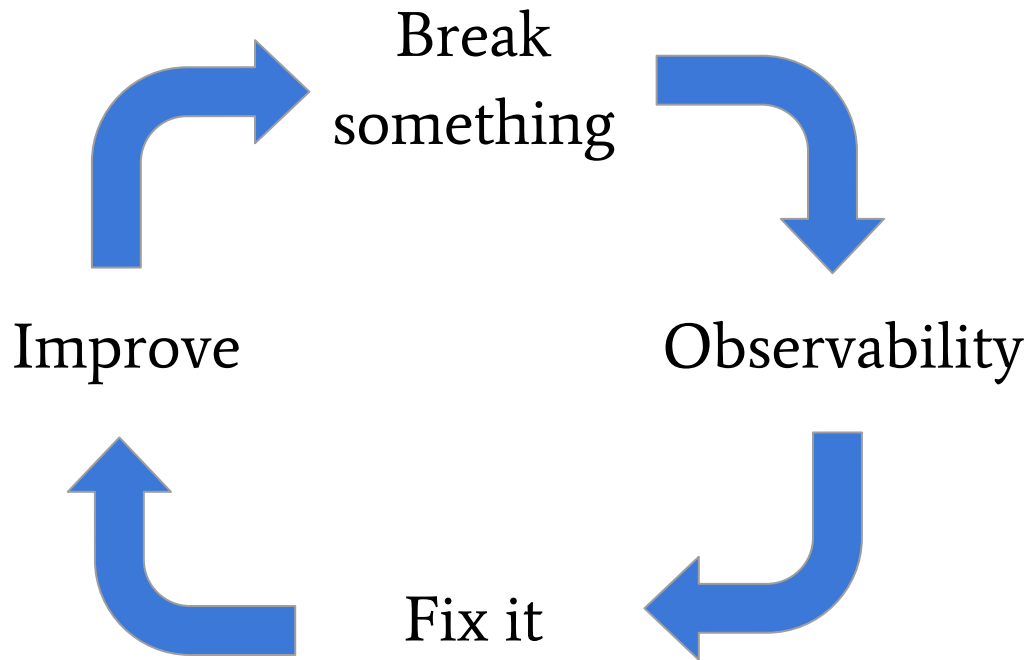
Log aggregation

Chaos monkey

- Weekly scheduled session
- Two “monkeys”
- One “victim”



Make it easy to observe failures



Predictable chimp

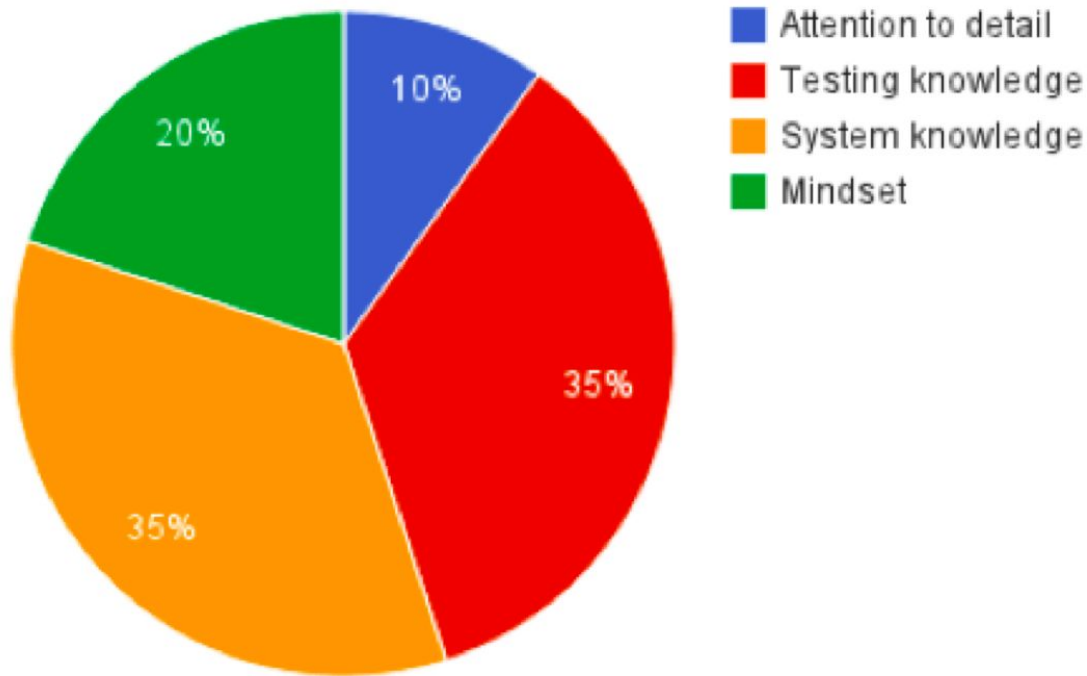
- Cheeky
- Multi-talented
- Engaging
- Attention grabbing
- Playful



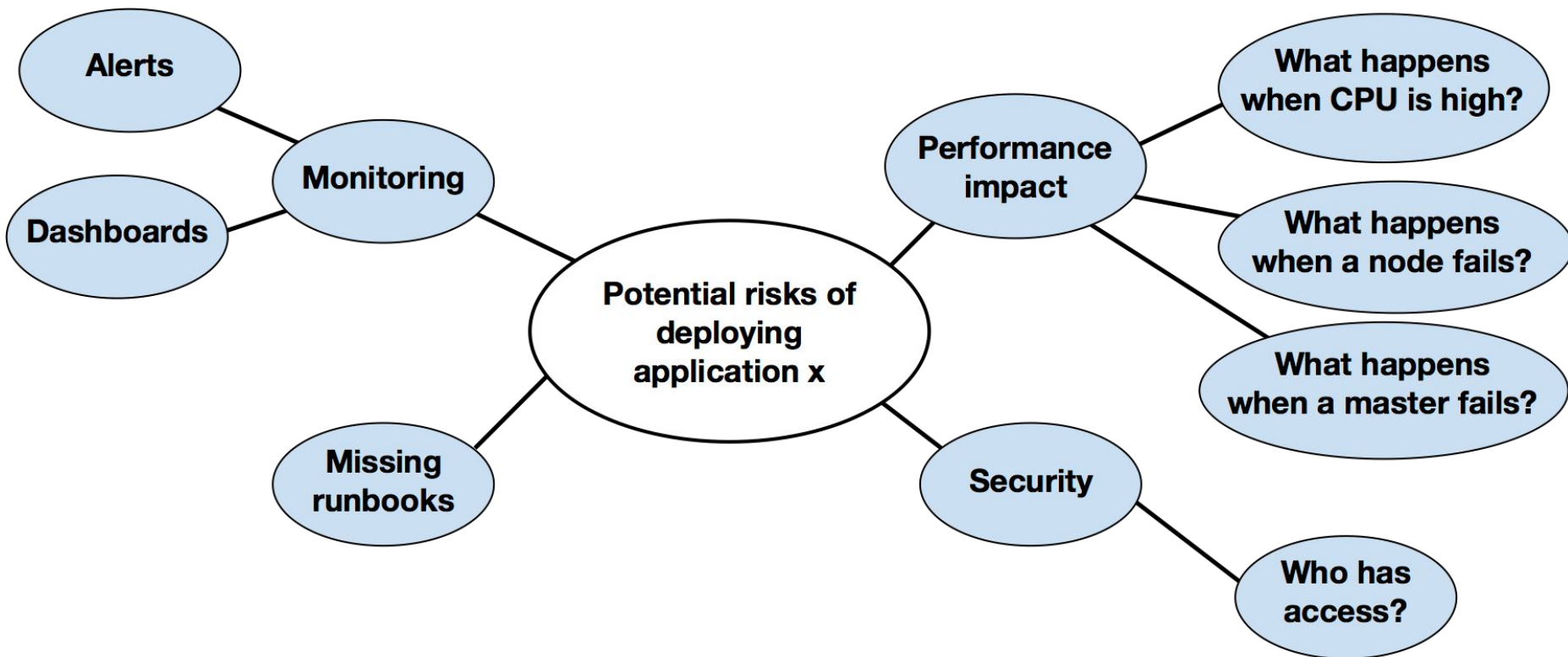
<http://interactivepuppy.com/spinmaster-zoomer-chimp-interactive-monkey-toy-review/>

How to design test scenarios

Do you really need a tester?



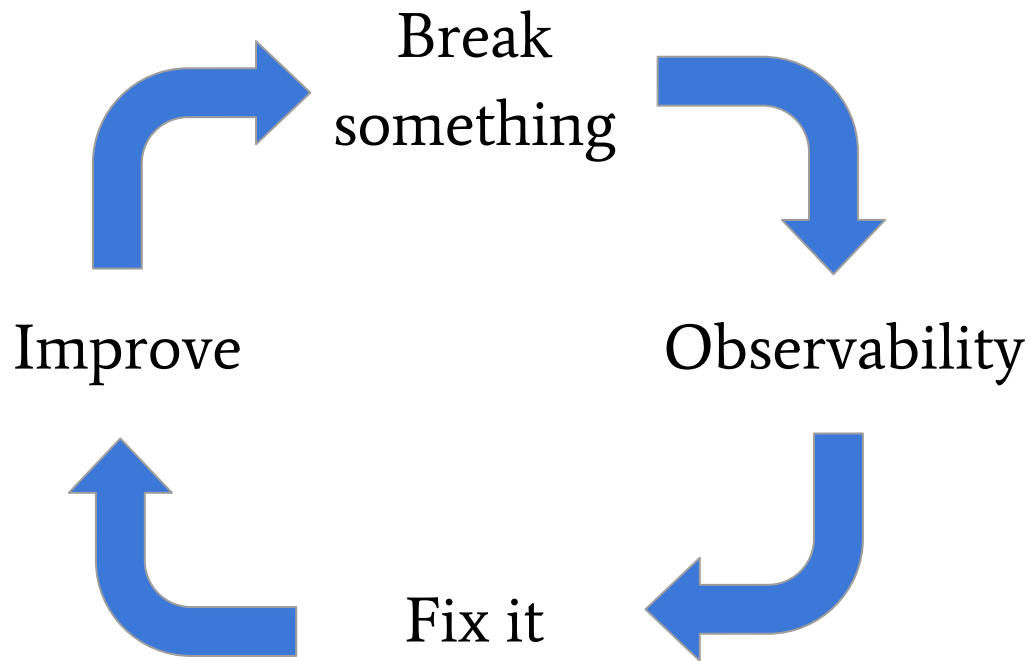
Idea generation



Is it worth it?

Test value = risk vs. effort

Make it better



In summary

- Testing is changing as systems change
- Observability may take the place of many testing tasks
- But observability isn't free
- We should be asking “How will we know when it isn't working?”

Thanks

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