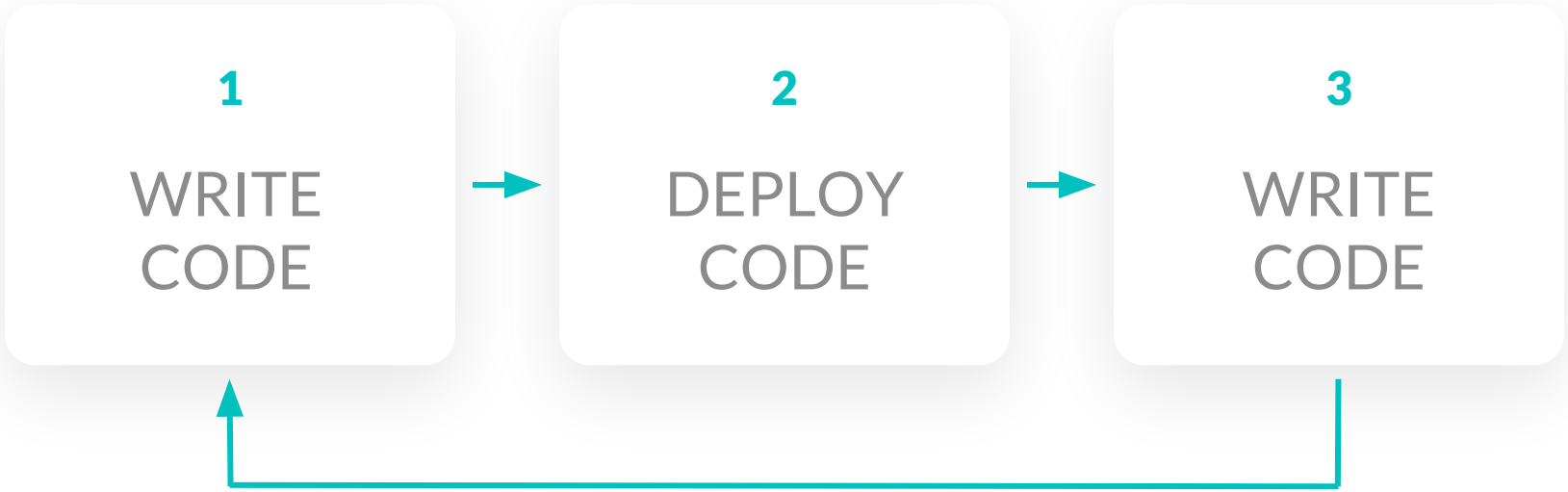
UBC
LAUNCH
PAD

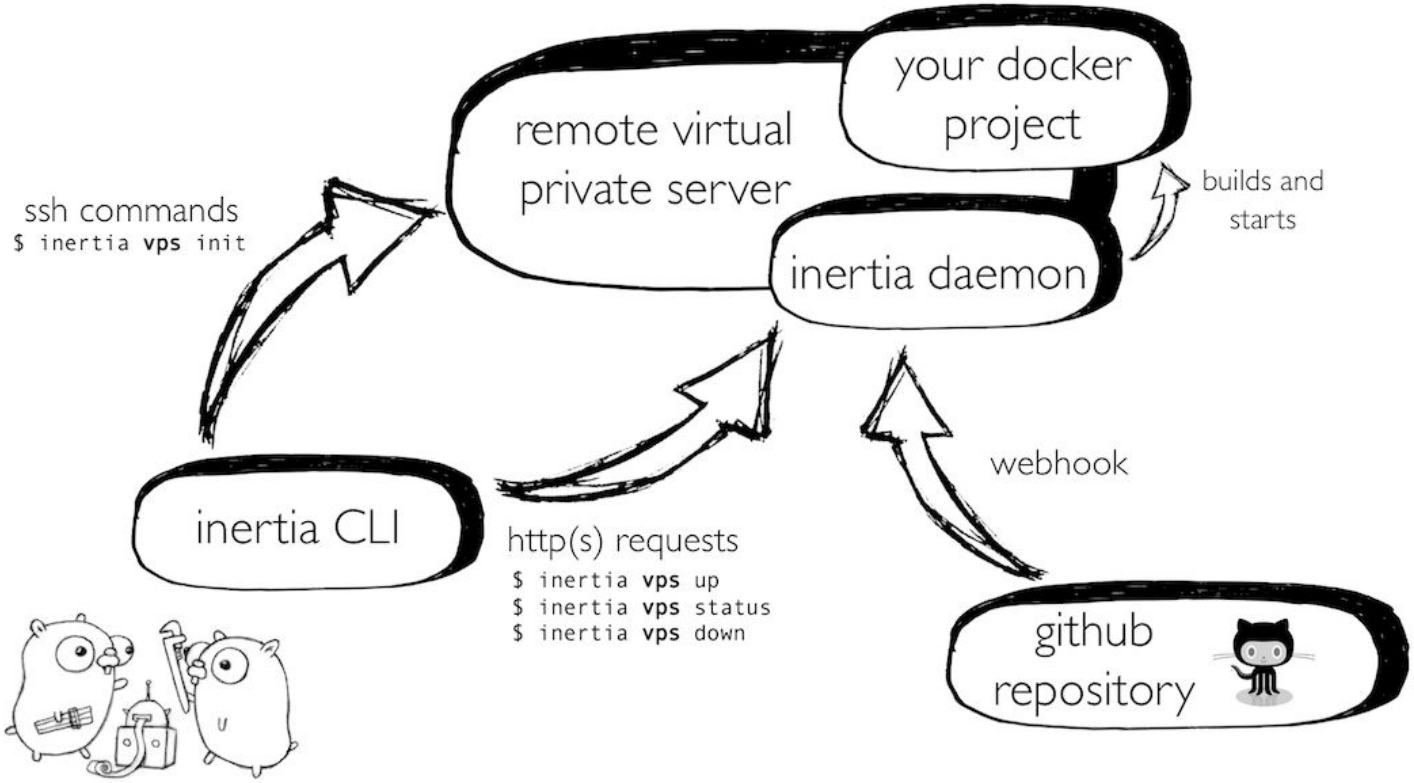
INERTIA

Simple, self-hosted continuous deployment

Continuous Deployment



How it works

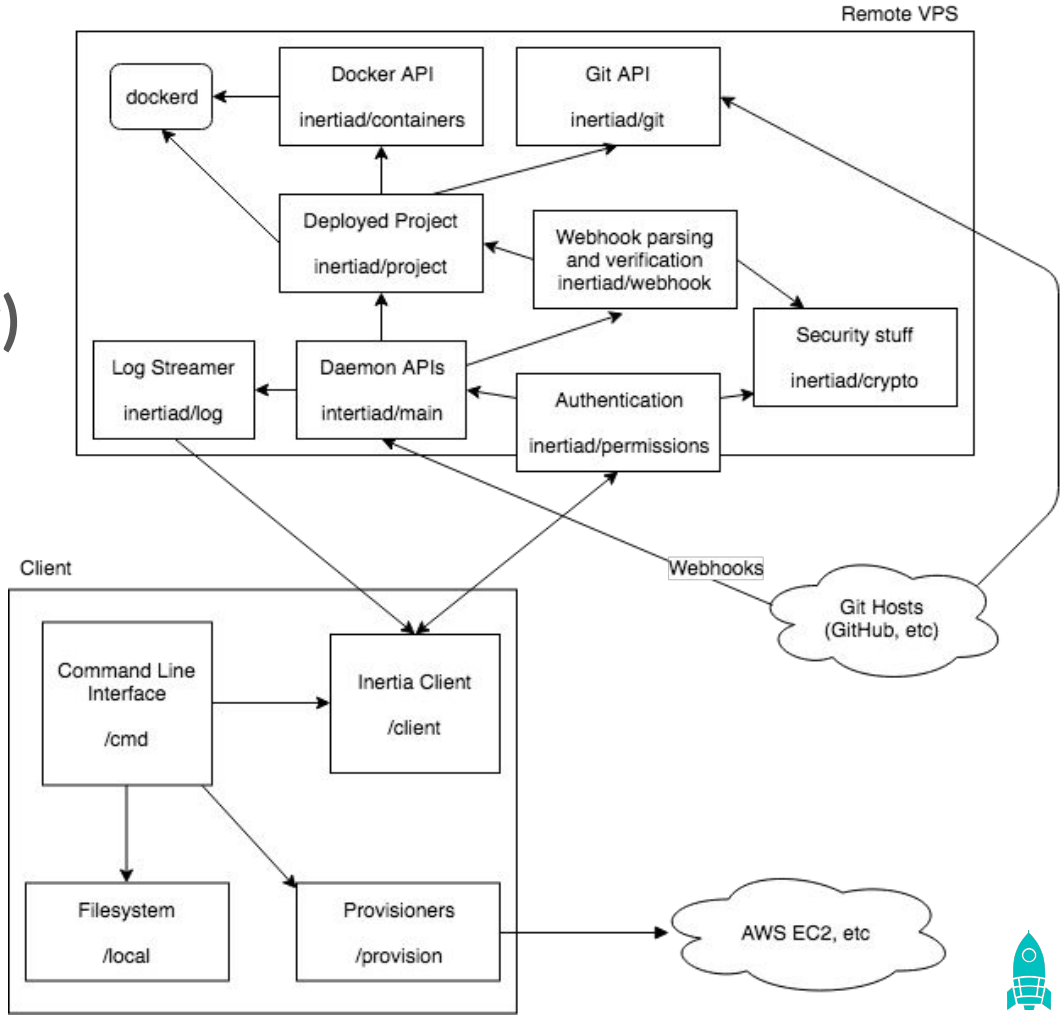

remote virtual private server
your docker project
inertia daemon
builds and starts
ssh commands
$ inertia vps init
inertia CLI
http(s) requests
$ inertia vps up
$ inertia vps status
$ inertia vps down
webhook
github repository

Code is hard

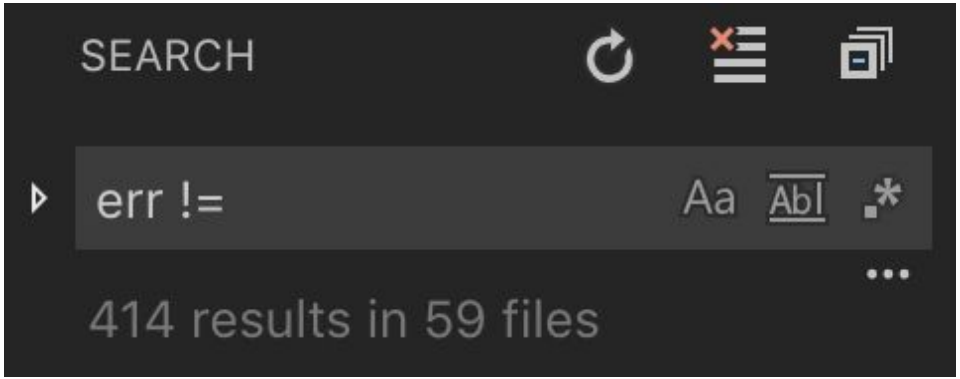
(but diagrams are harder)

Inertia today:

- **~13,000 lines of Golang** across ~36 packages
- **~1,500 lines of Javascript**
- ~1,200 commits
- ~2,300 Travis builds
- ~21 contributors



a golang meme



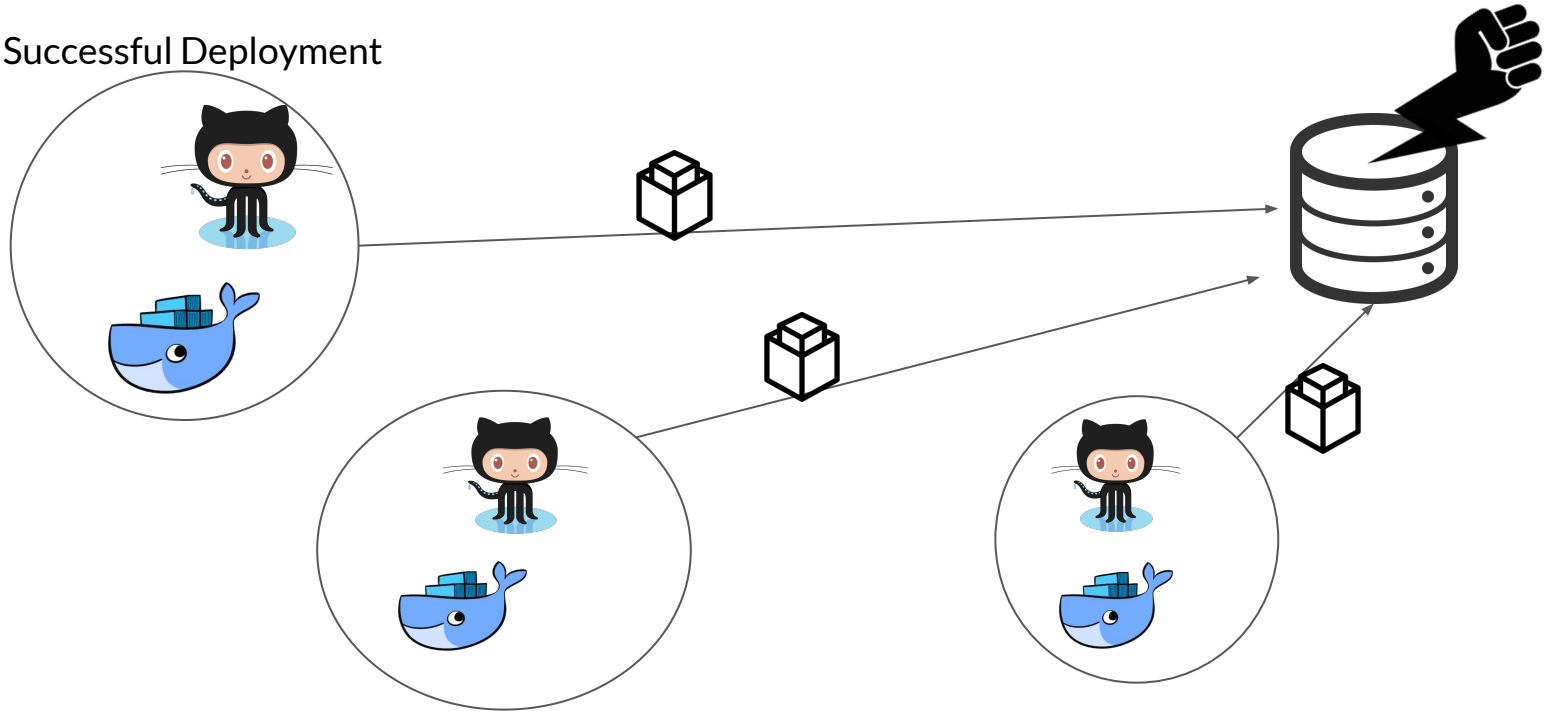
(~414 checks) * (~3 lines per err check) = ***~1,242 lines of err checks***

meme

(414) * (~3 lines per err ... *err checks*

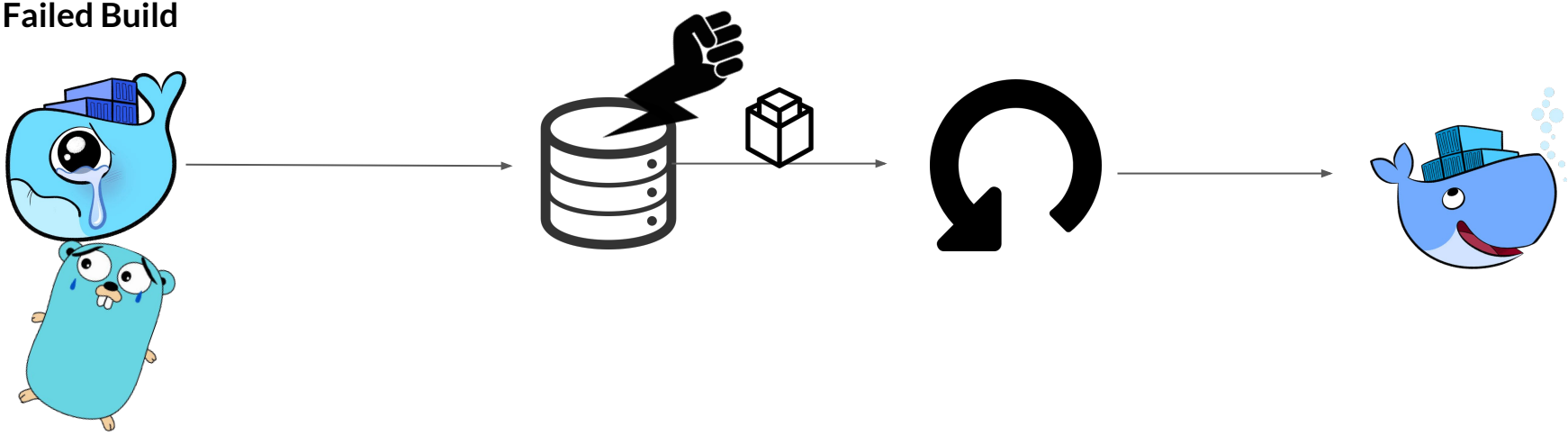
Seif - Project Deployment History

Successful Deployment

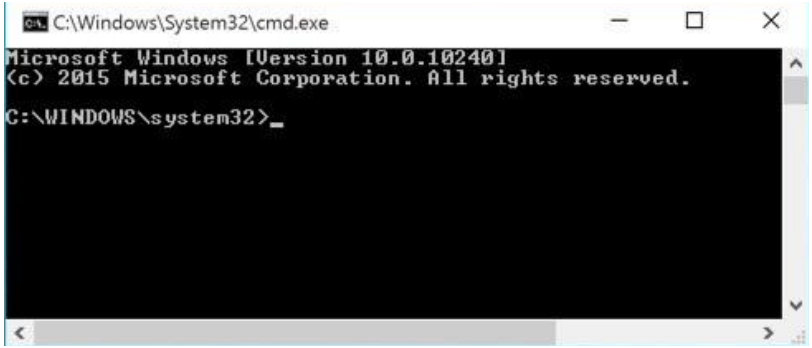


Next Steps

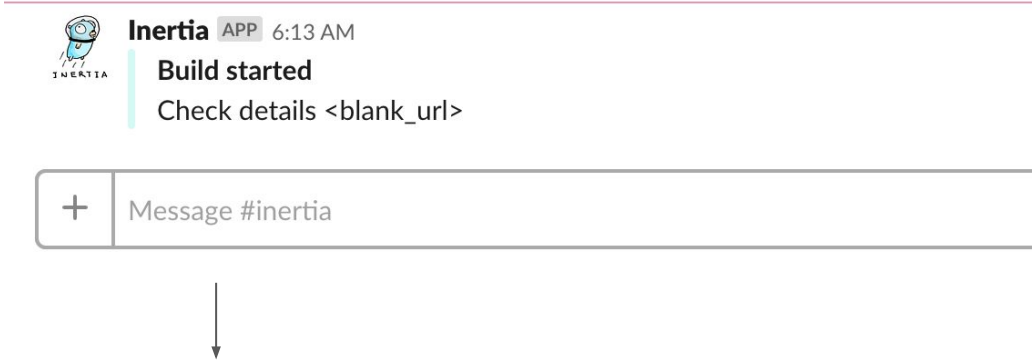
Failed Build

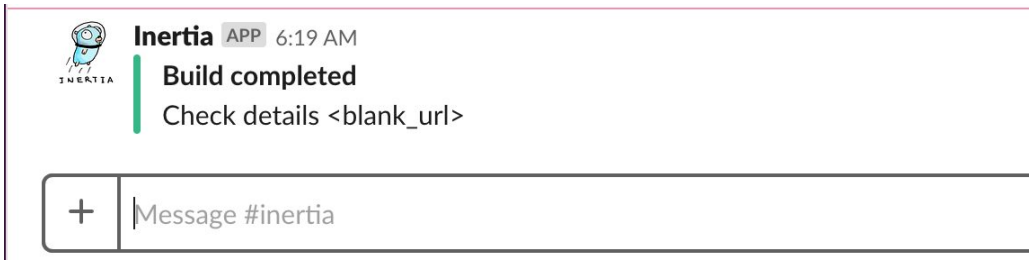


Harry - Cross-Platform Compatibility

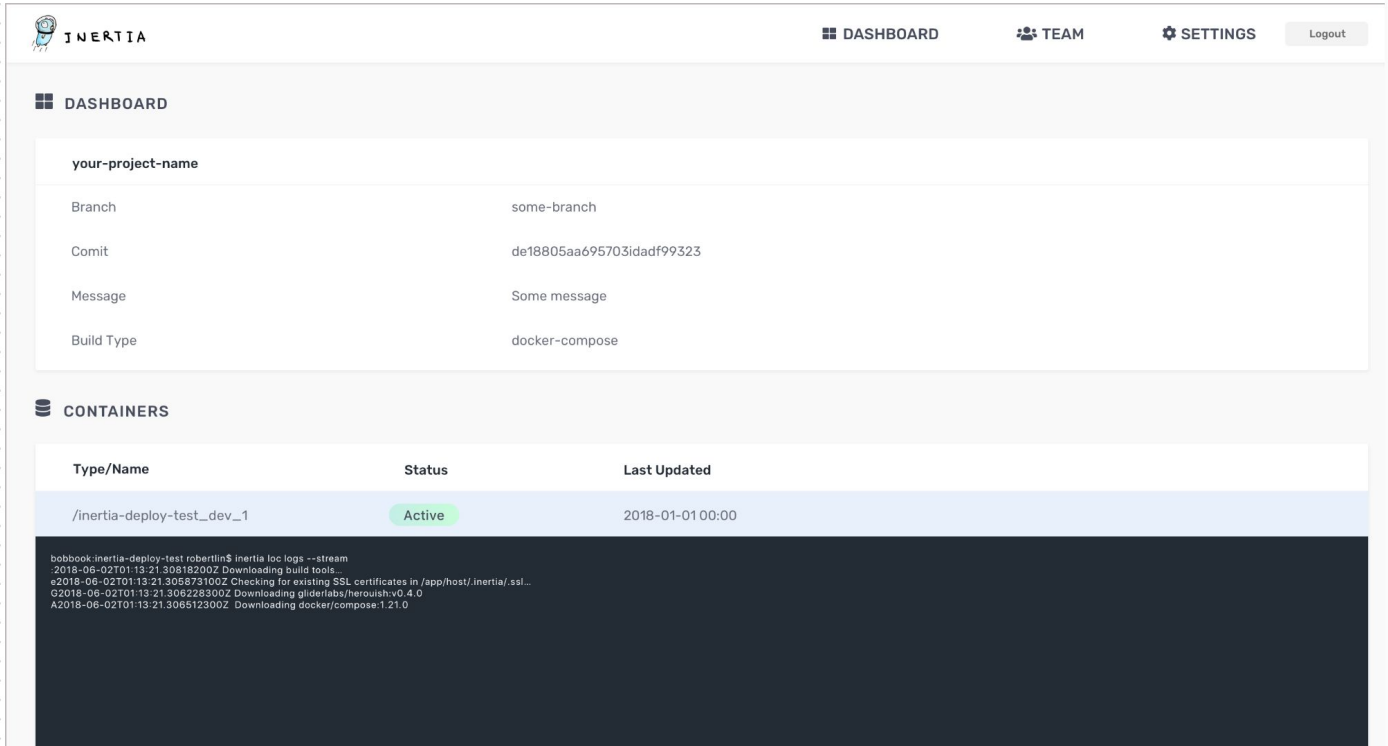


Terry - Slack Integration





web


INERTIA
DASHBOARD
TEAM
SETTINGS
Logout
DASHBOARD
your-project-name
Branch
some-branch
Comit
de18805aa695703idadf99323
Message
Some message
Build Type
docker-compose
CONTAINERS
Type/Name
Status
Last Updated
/inertia-deploy-test_dev_1
Active
2018-01-01 00:00
bobbook:inertia-deploy-test robertlin$ inertia loc logs --stream
:2018-06-02T01:13:21.308182002 Downloading build tools...
e2018-06-02T01:13:21.305873100Z Checking for existing SSL certificates in /app/host/.inertia/.ssl...
G2018-06-02T01:13:21.306228300Z Downloading gliderlabs/herouish:v0.4.0
A2018-06-02T01:13:21.306512300Z Downloading docker/compose:1.21.0

Demo!

star us!

`github.com/ubclaunchpad/inertia`

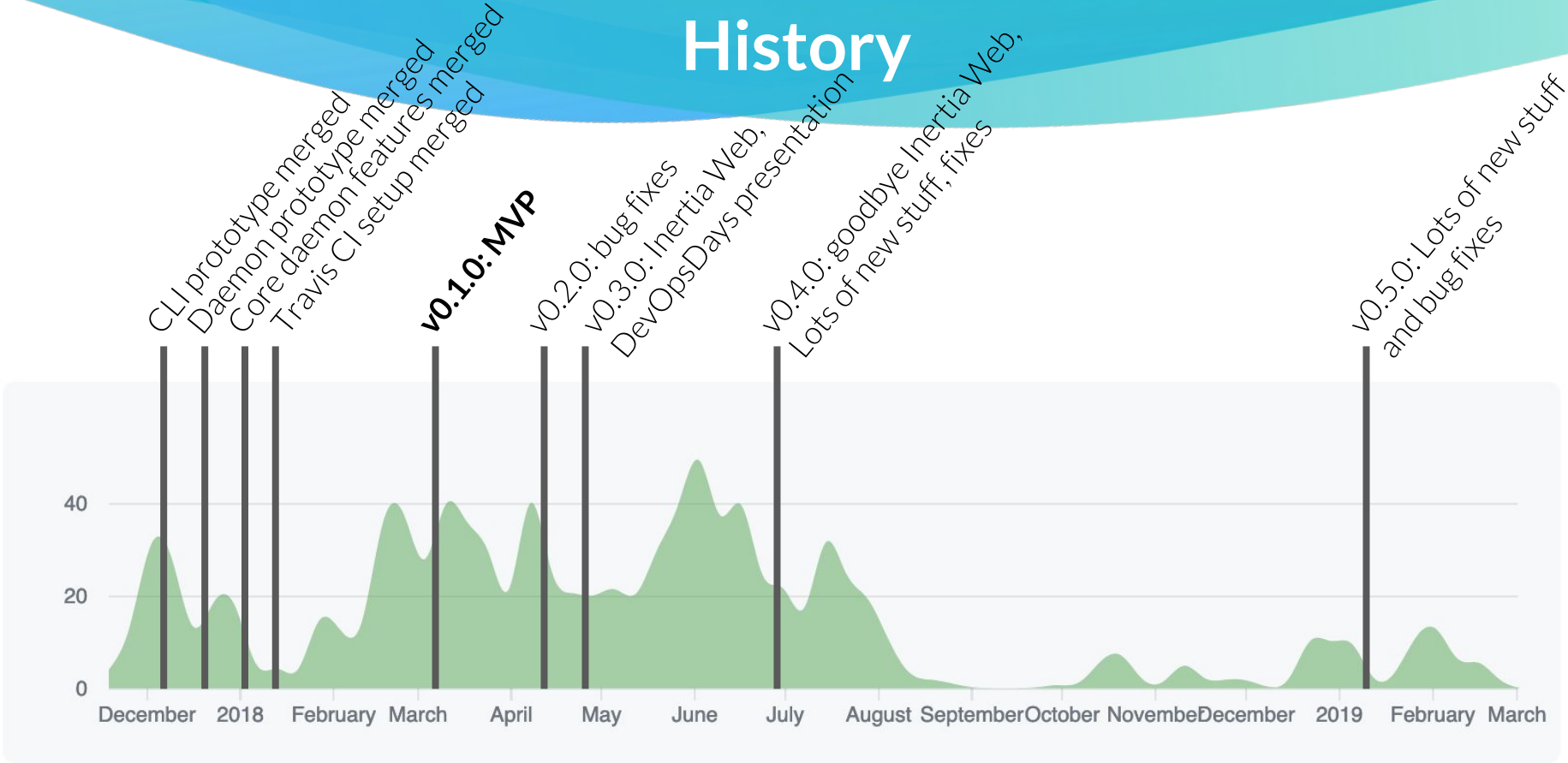
learn more

`inertia.ubclaunchpad.com`

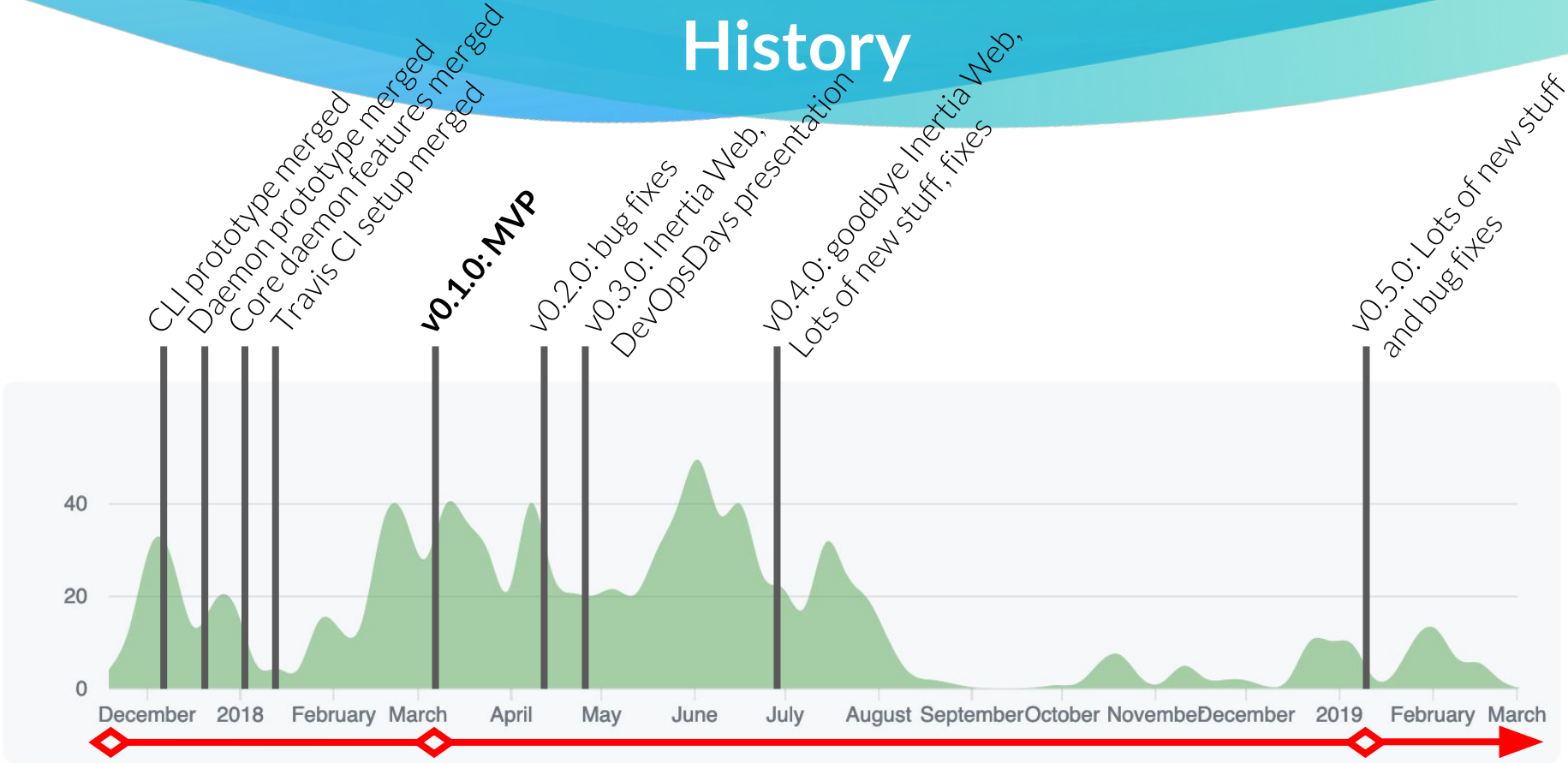
History

- Started in December 2017 (Chad, Jordan, Robert, Bruno)
- Wanted to address project deployment @ Launch Pad
  - Deployment is hard
  - Sporadic funding / free trials from cloud providers
  - Existing standalone tools are usually overkill
- Hacked out an MVP by March 2018 (v0.1.0)
  - MVP was not very good (aka it was very bad)

History


CLI prototype merged
Daemon prototype merged
Core daemon features merged
Travis CI setup merged
v0.1.0: MVP
v0.2.0: bug fixes
v0.3.0: Inertia Web, DevOpsDays presentation
v0.4.0: goodbye Inertia Web, Lots of new stuff, fixes
v0.5.0: Lots of new stuff and bug fixes
40
20
0
December
2018
February
March
April
May
June
July
August
September
October
November
December
2019
February
March

History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v0.5.0: Lots of new stuff
and bug fixes
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December
2018
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November
December
2019
February
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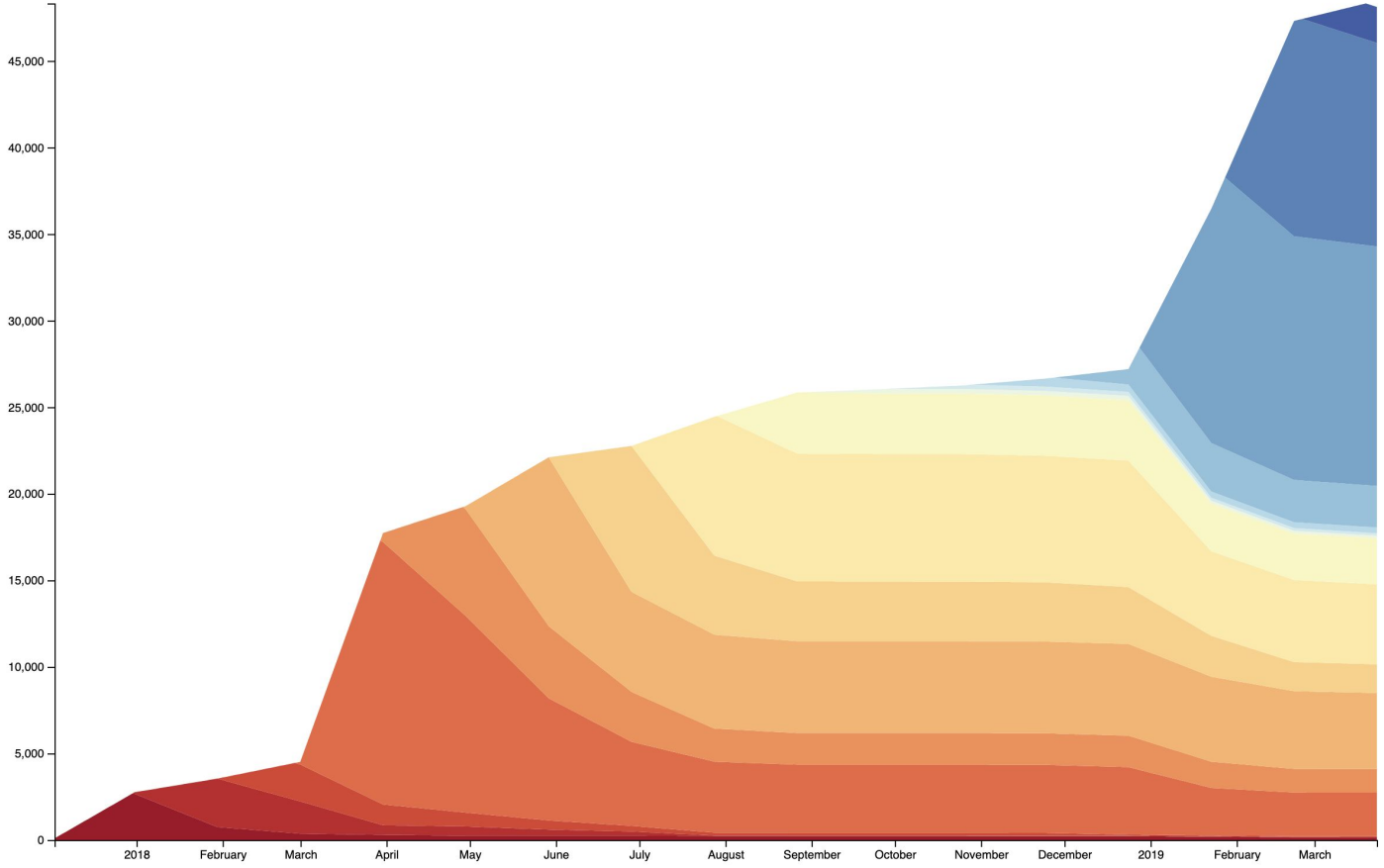
4 months
9 months
????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2018
February
March
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August
September
October
November
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2019
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March

tl;dr shit takes time

don’t give up! focus on learning and experimenting

sometimes you do things wrong and that’s okay

be proud of what you’ve done!