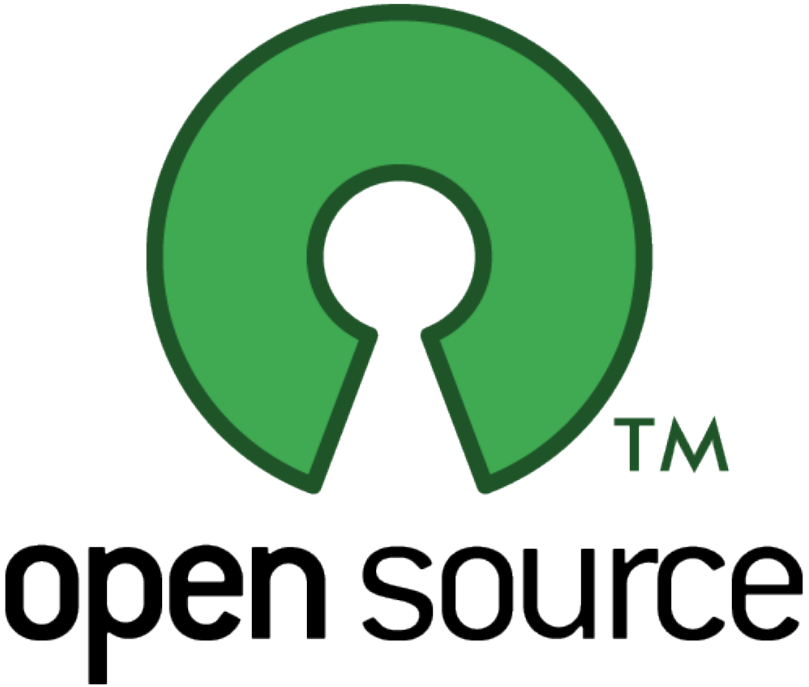
ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

Everware

Tim Head, EPFL

The work of: @OmeGak, @ibab, @ndawe, **@betatim**, @uzzielperez, @anaderi, and @AxelVoitier
(those are github usernames)


TM
open source

Remix

Reproduce

Replicate

ROLEX
Santander
gettyimages
Charles Coates
487111268

Everware let’s you edit and run code that has complex setup instructions with one click, from your browser.

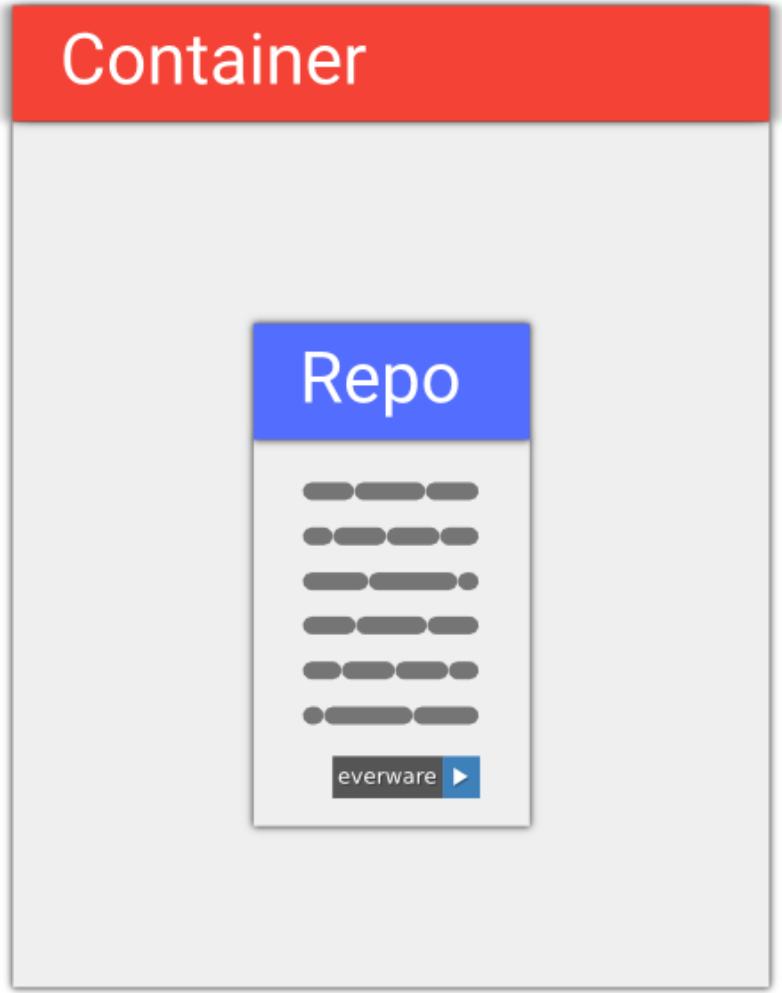
Publish code

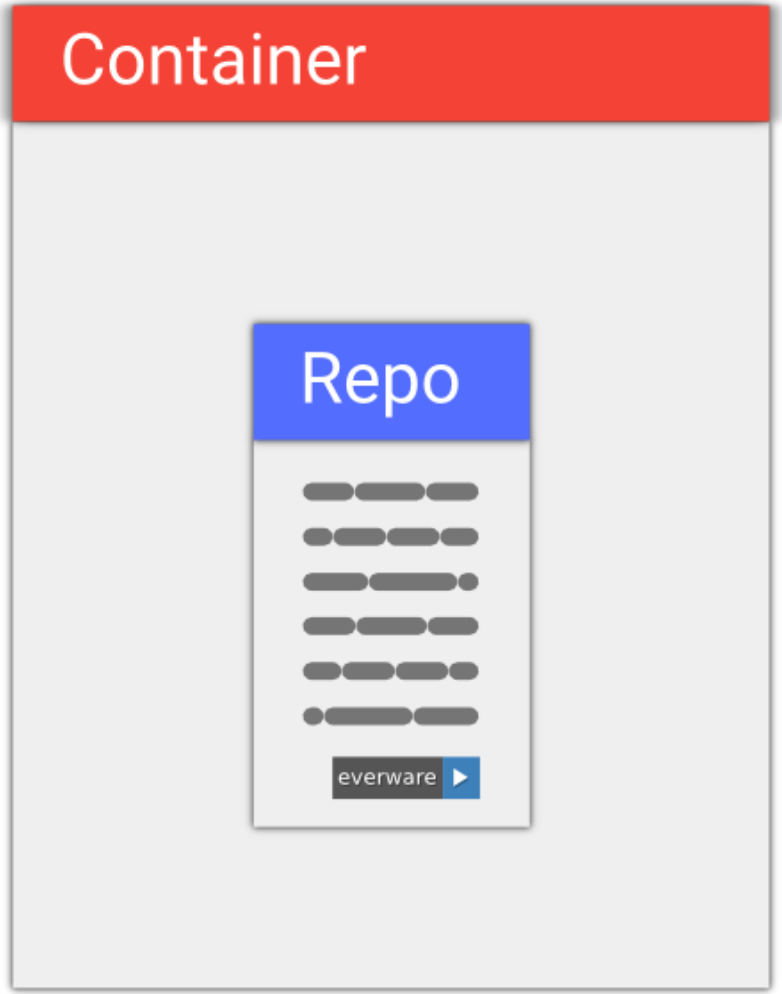
Discover code

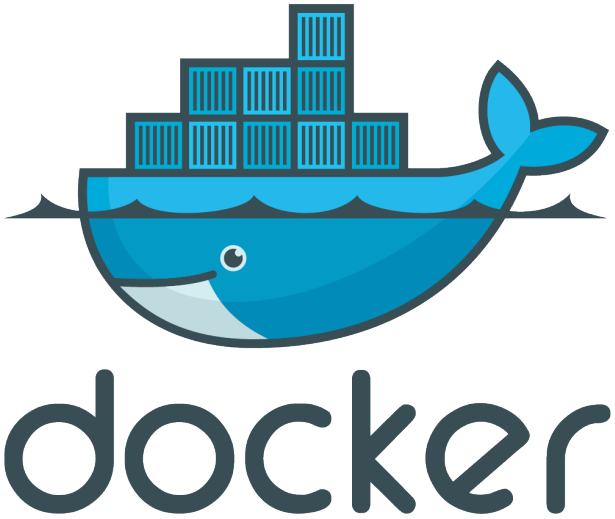
Edit and run code

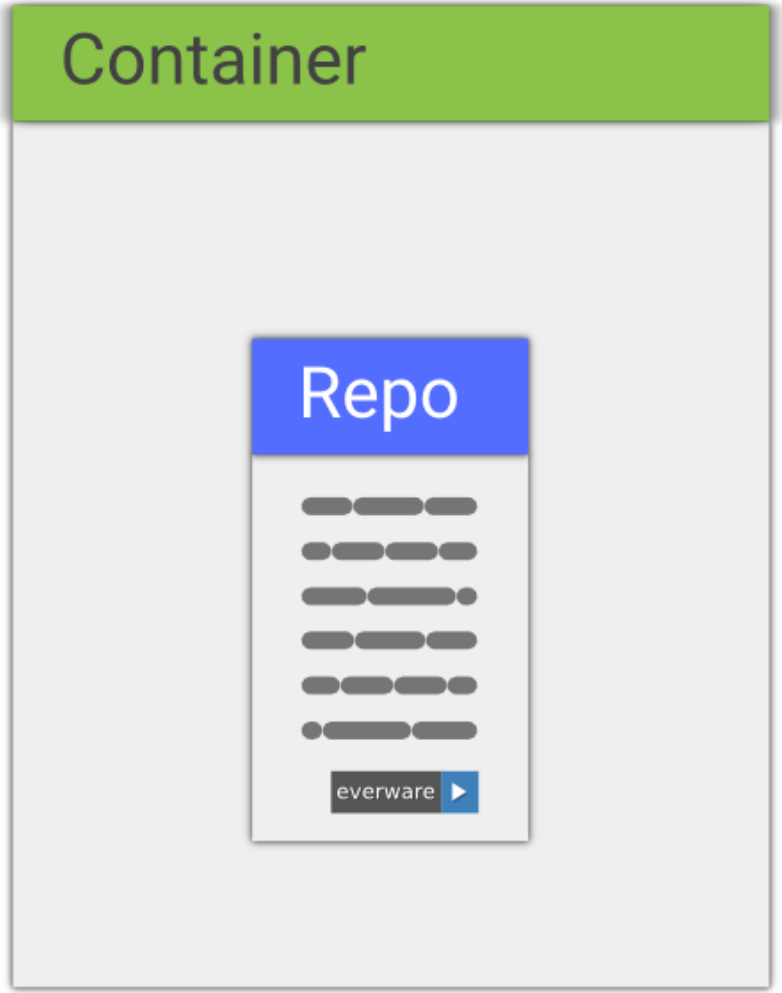
Repo
everware

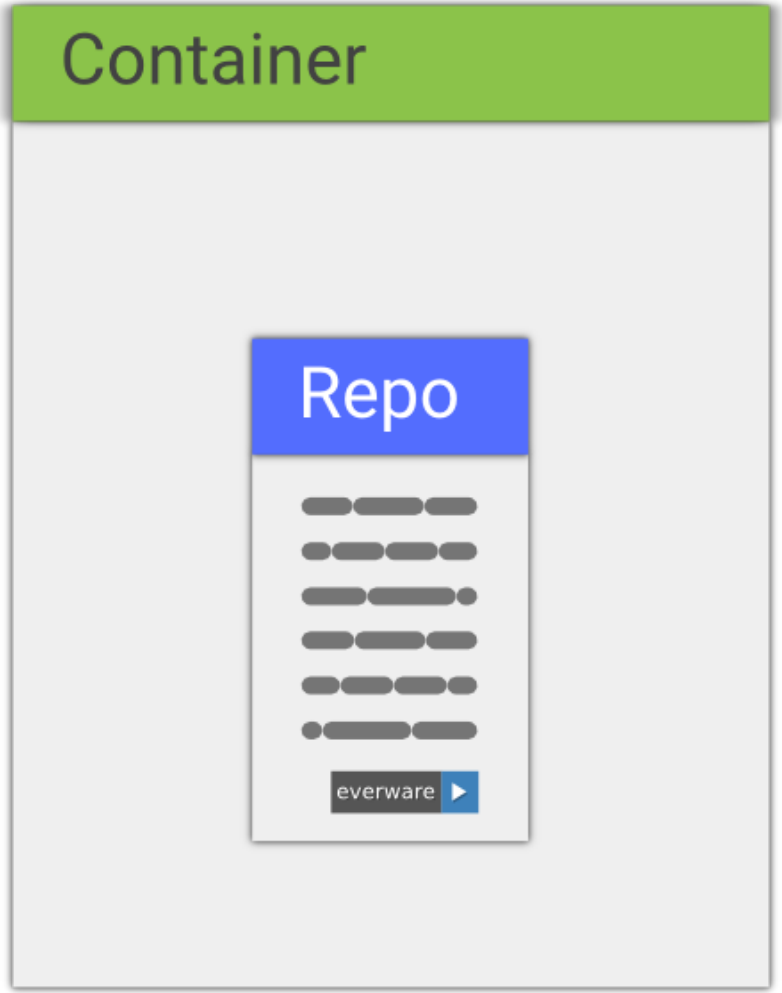
Repo
everware
everware


Container
Repo
everware


Container
Repo
everware


docker


Container
Repo
everware


Container
Repo
everware

jupyterhub

Architecture

Docker + jupyterhub = everware

If the code's environment is specified in a Dockerfile, everware will build it, launch it and connects you to it via your browser.

Demo!

(code in https://github.com/betatim/everware-demo)

What We Have

- working demos
- author decides how to structure their software
  - notebooks are amazing, trust me … but you don’t have to use them.
- pluggable user authentication
- (secret) git repositories as source
- docker and docker-swarm
- run locally during development
  - provides an incentive to the author to write a Dockerfile

What We Want (or would like to have)

- computing sponsors
- collaborators ⇝ http://github.com/everware
- launch containers on resources belonging to the user
- polished user interface/iron out kinks
- better root/cling kernel for jupyter
- you to talk to me (analysis preservation, interactive tutorials, hosting everware, …)

Be crazy, Join us!

http://github.com/everware