

Everware

Tim Head, EPFL

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



open source

Remix

Reproduce

Replicate





gettyimages®
Charles Coates

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

Publish code

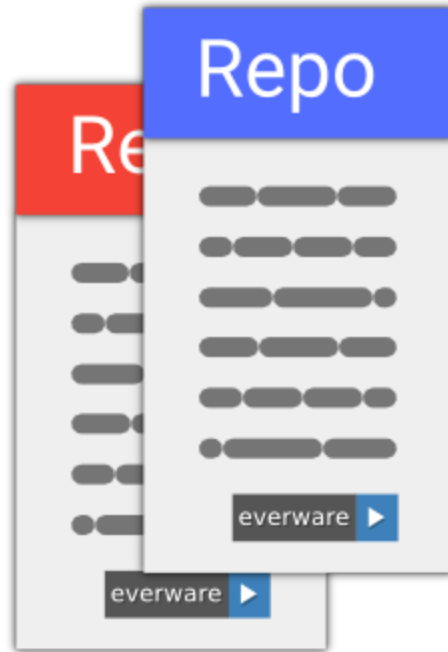


Discover code

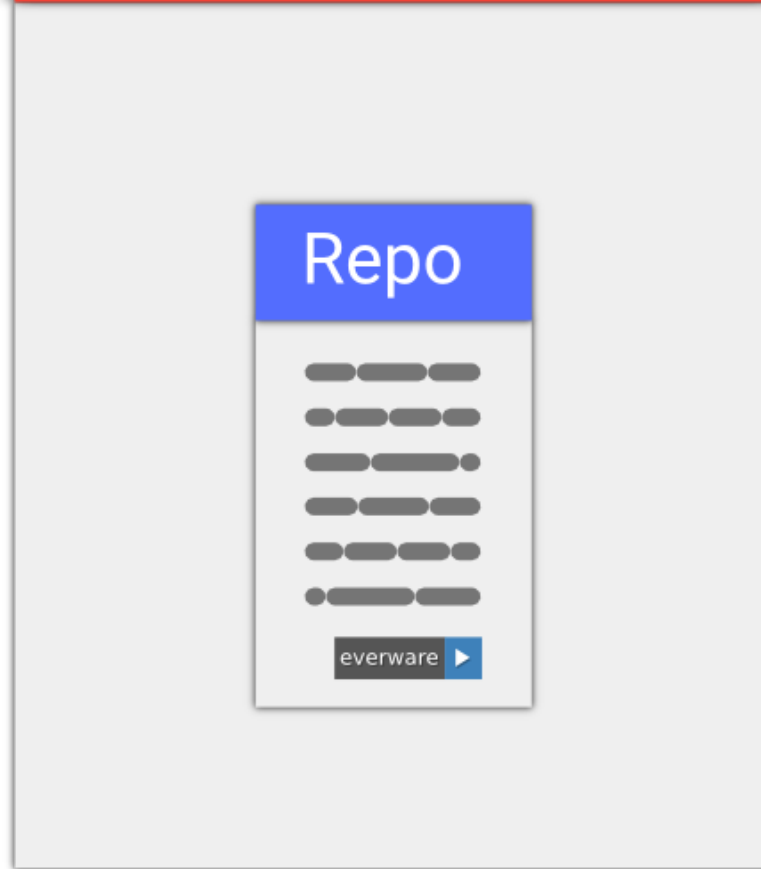
Edit and run code







Container

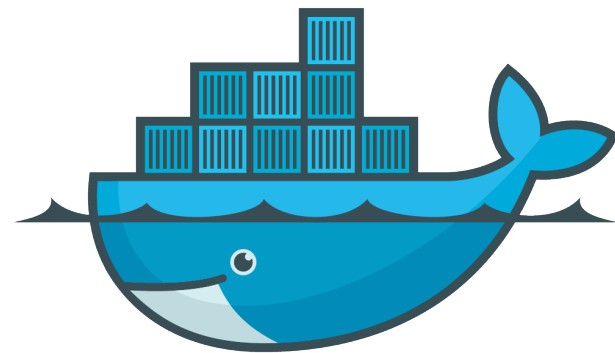


Container

Repo

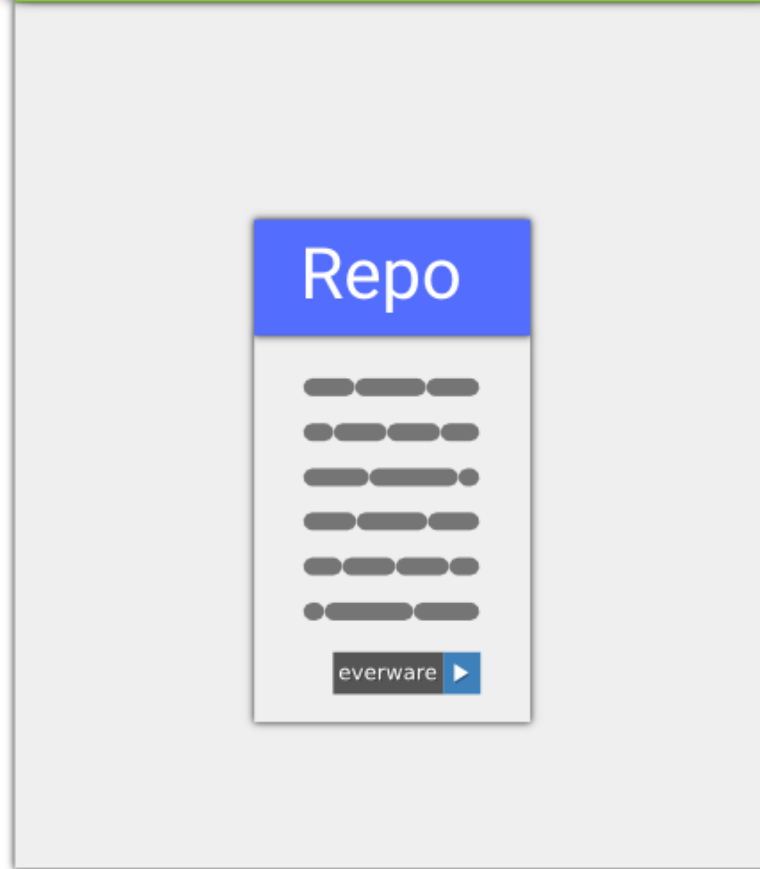


everware



docker

Container



Container

Repo



everware ▶



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 \rightsquigarrow <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>