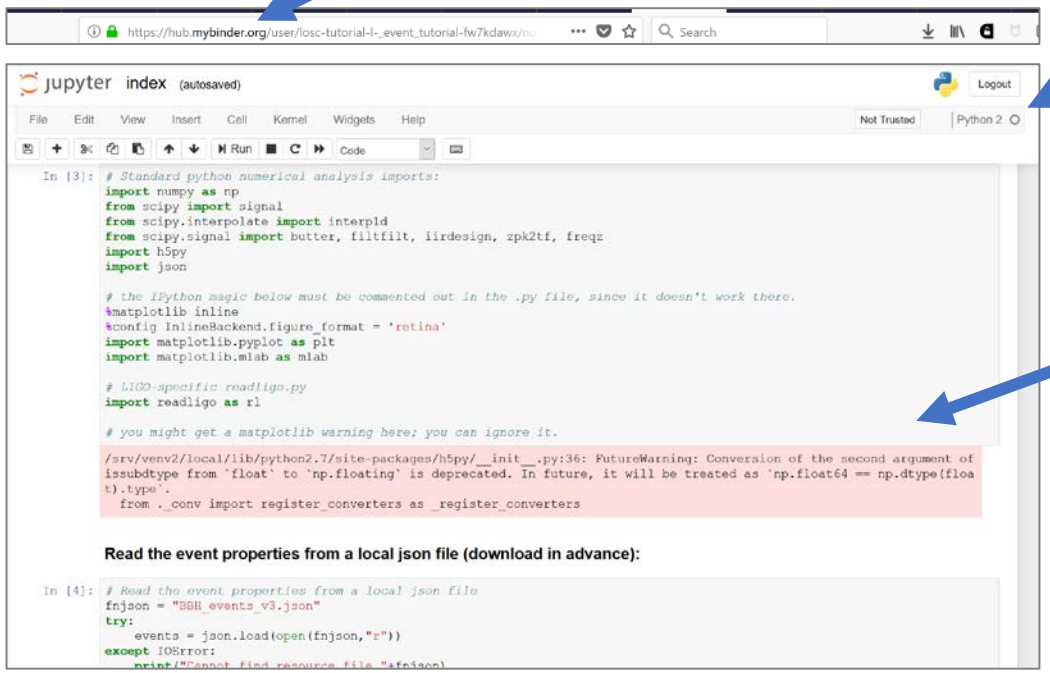
How does Binder work?

"Binder allows you to create custom computing environments that can be shared and used by many remote users"

https://mybinder.readthedocs.io/en/latest/

Visible in your browser,
but running on a remote machine

Your browser



Specified version
of Python
(or other kernels eg R)

You see the code in
the .ipynb file

How does Binder work?

Code for notebook and list of dependencies and files available on GitHub (right now Binder only works with public repositories)

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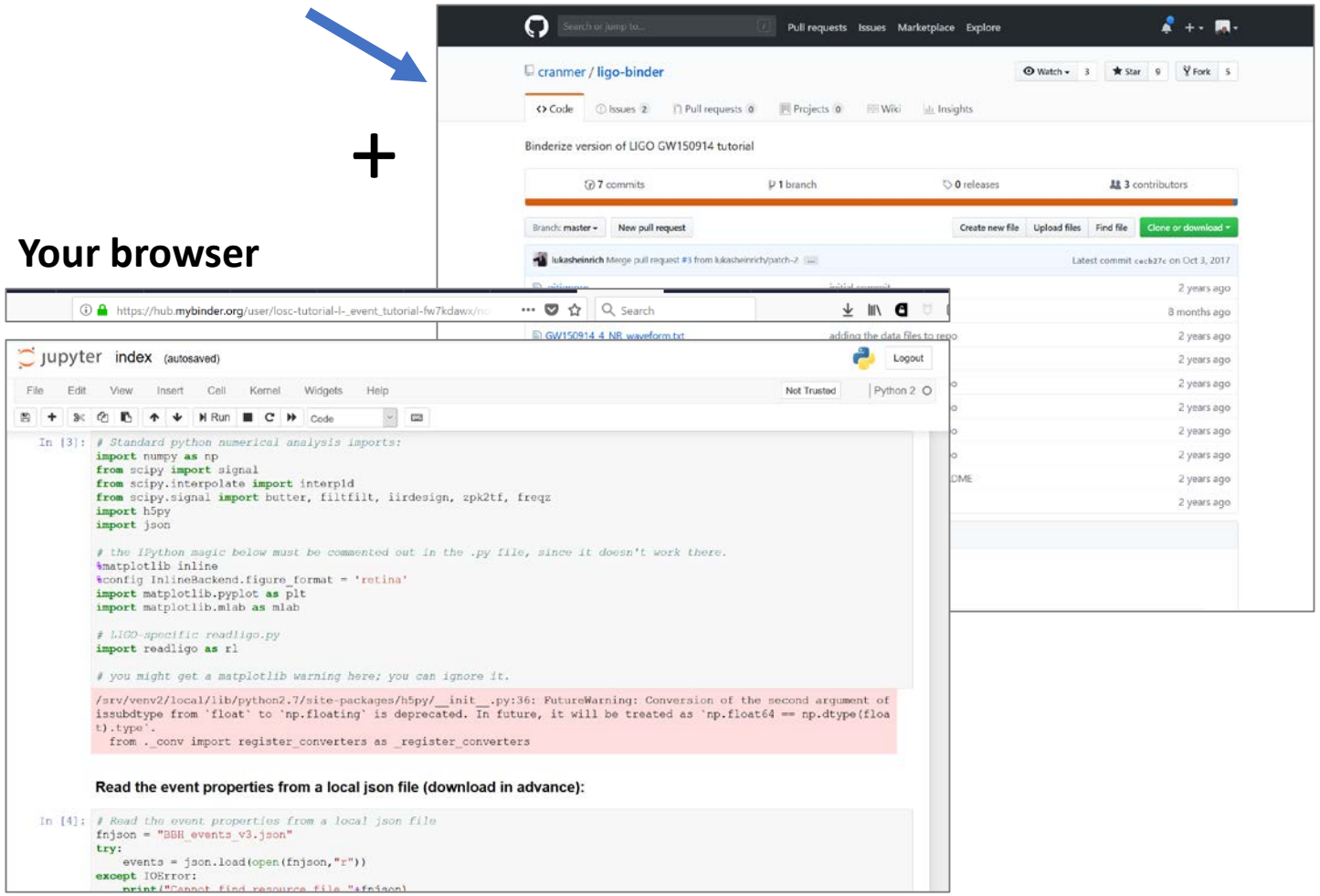
Your browser



How does Binder work?

binder (beta) builds Docker image based on repo and generates URL for public access

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Code and dependencies in repo

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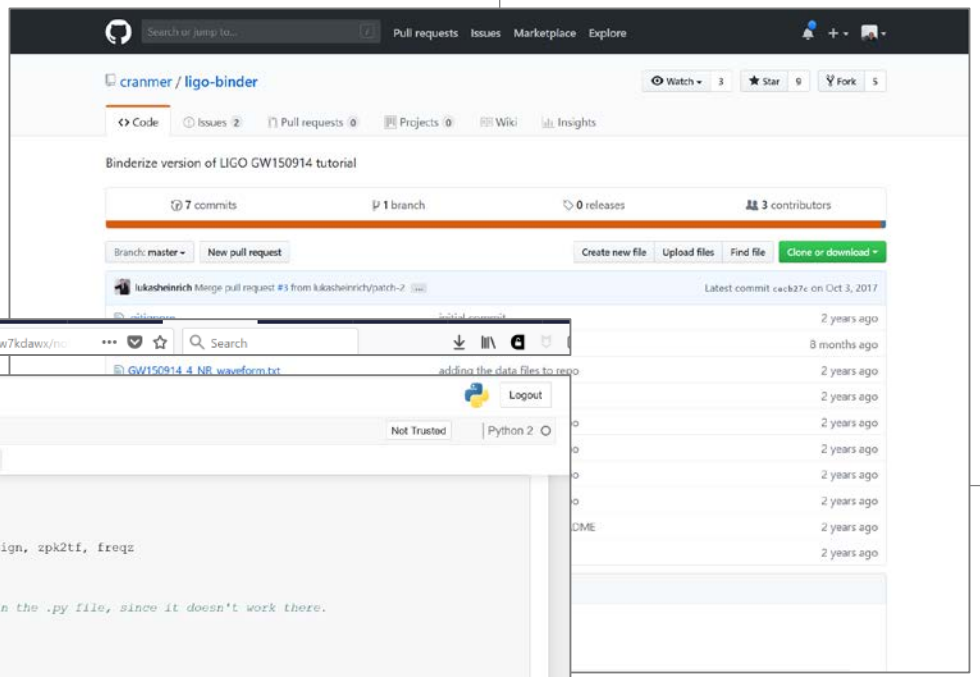
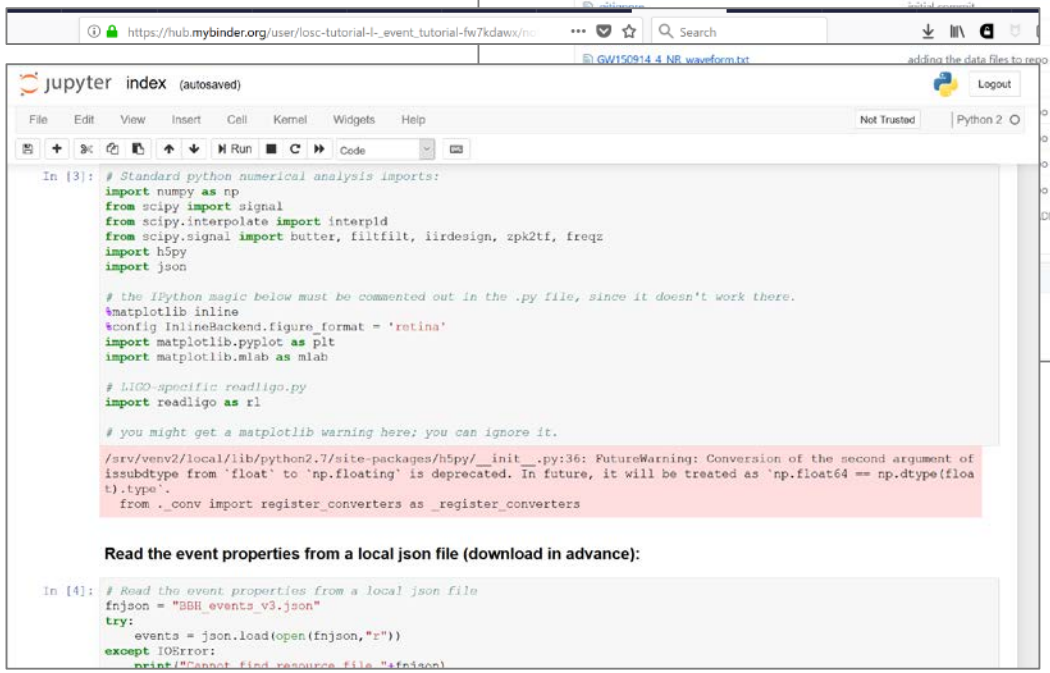
Your browser





required software + packages

included data

How does Binder work?

Cloud hosting + management

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Docker image

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Code and dependencies in repo

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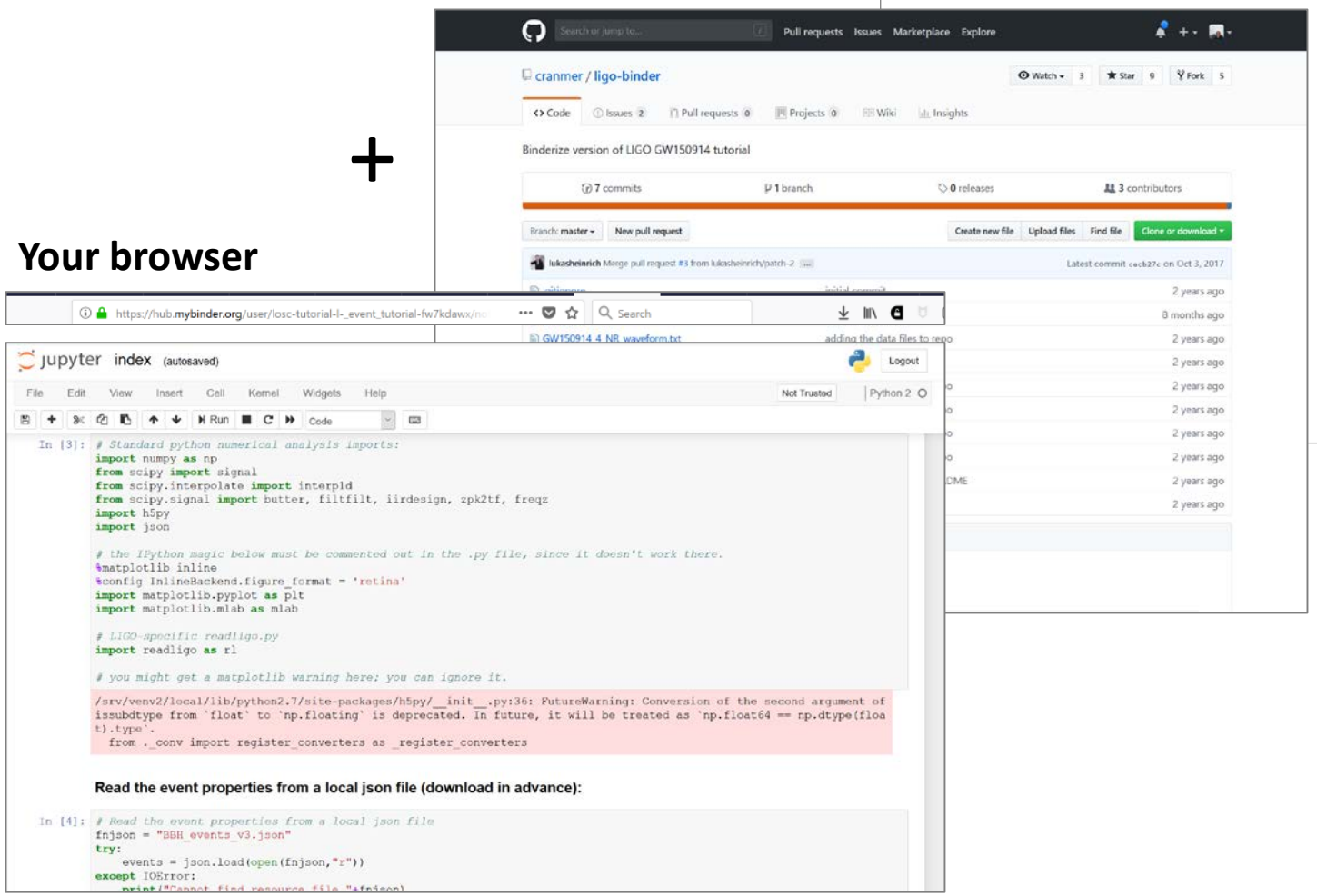
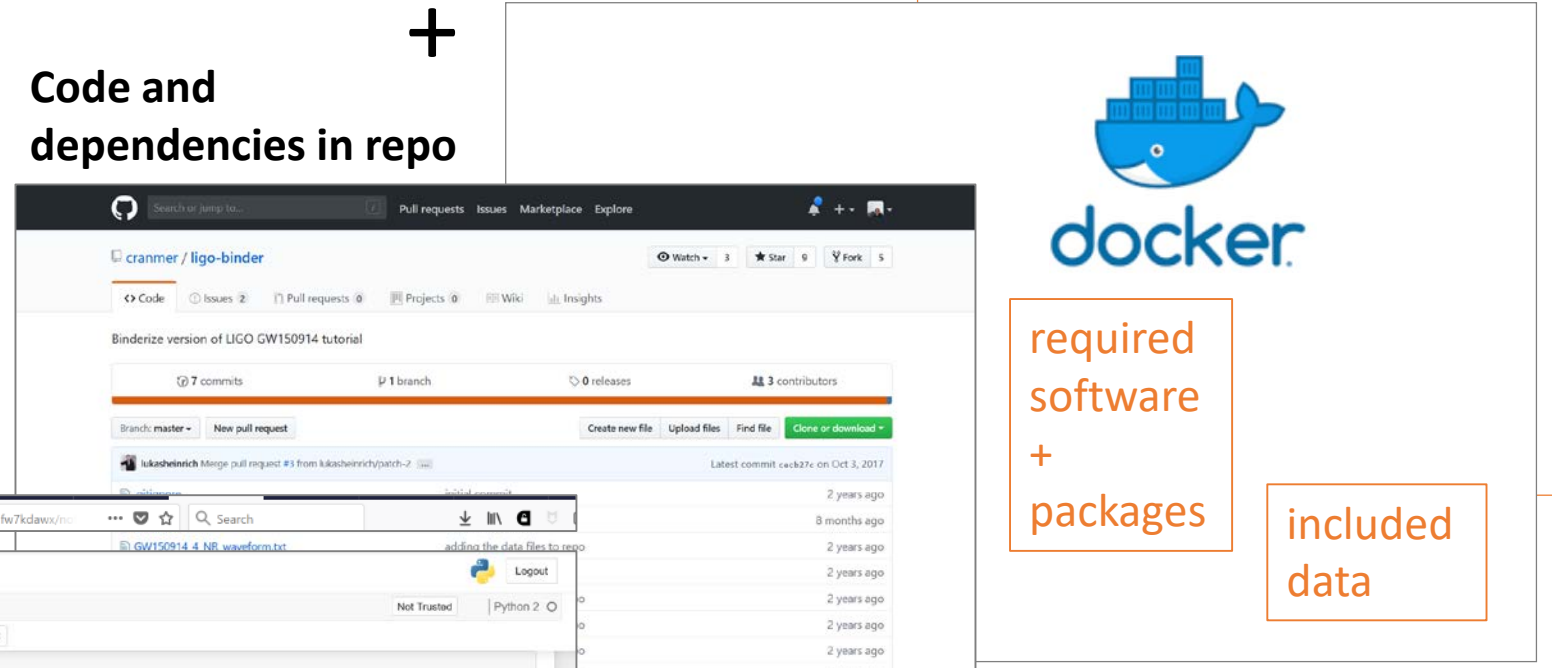
Your browser





JupyterHub

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Kubernetes

Generated binders are hosted by a hub that deploys, scales, and manages compute resources using Kubernetes

(can run on any cloud platform provider)
More details: BinderHub