CSE6242 / CX4242: Data & Visual Analytics

Extremely Important:
Code backup & version control using **github.gatech.edu**

OneDrive

Duen Horng (Polo) Chau
Assistant Professor
Associate Director, MS Analytics
Georgia Tech

Why back up your code?

- **Computer dies**, and sometimes at the most inconvenient times (e.g., right before deadline)

- Finding another computer quickly is easy, **recreating lost work and data is not**.

- Polo highly recommends using github.gatech.edu (i.e., git repository)

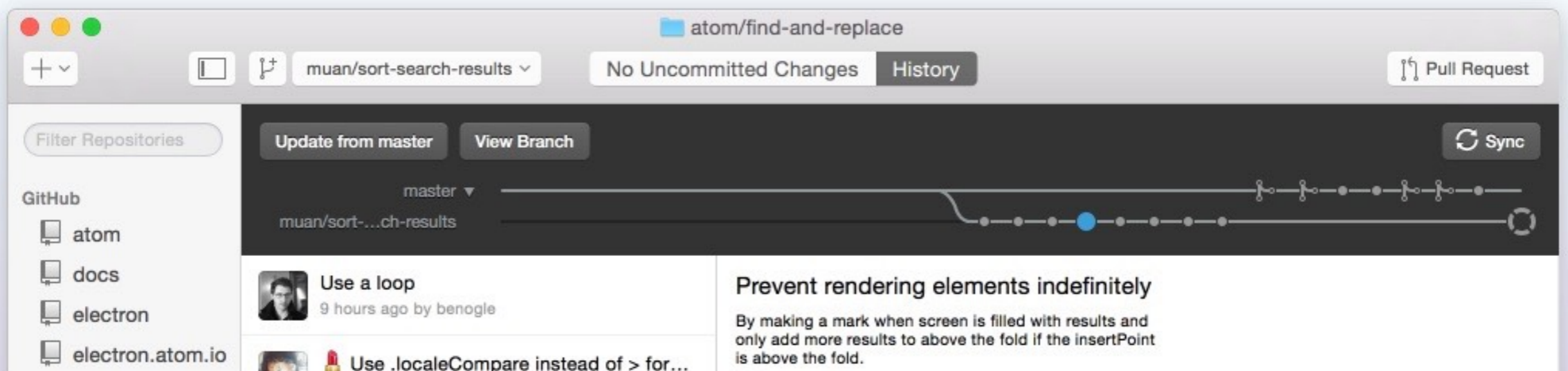- Git is probably the most popular version control system in software development. https://en.wikipedia.org/wiki/Git

github.gatech.edu

1. Backs up code

2. Provides **version control**

   - so you can revert to older versions when needed

3. Supports code branching and collaboration

   - easy to collaboratively develop new features be integrating them into a "main" code base

4. Encourages you to write a README file (readme.md), shown on your repo's landing page
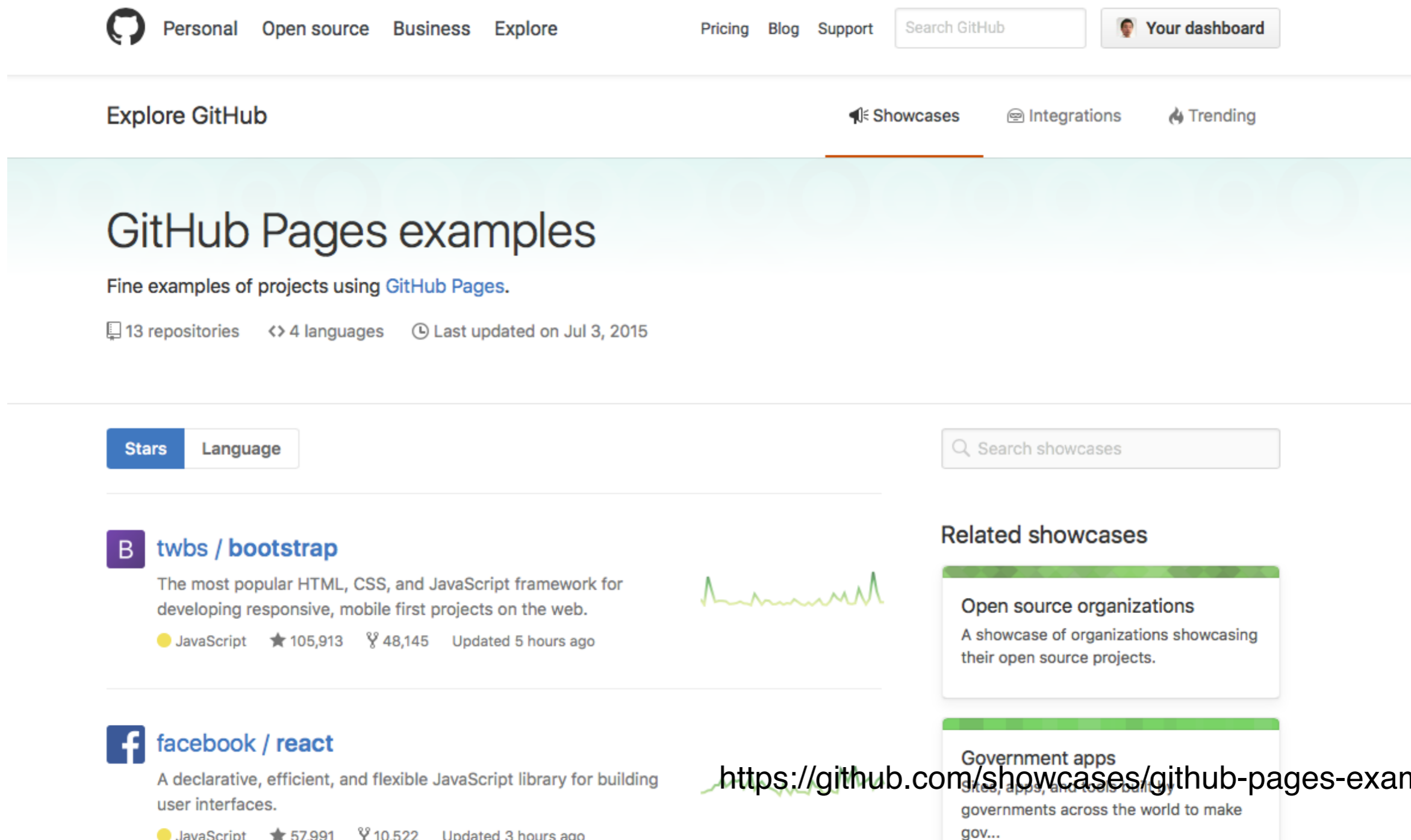
Github desktop client

Github provides easy-to-use FREE desktop clients for Mac and Windows (https://desktop.github.com)

- If you're new to Git/Github

- Or if you like GUI

- Or if you don't like typing commands

Nice documentation for your Github repository?

Use **Github Pages**

5

WARNING

Set you repo to ***private***,
**unless you're sure you
want it to be public.**

Why??

The Register®
Biting the hand that feeds IT

DATA CENTER **SOFTWARE** **SECURITY** **TRANSFORMATION** **DEVOPS** **BUSINESS** **PERSONAL TECH** **SCIENCE** **EMERGENT TECH** BOOT

Security

Dev put AWS keys on Github. Then BAD THINGS happened

Fertile fields for Bitcoin yields - with a nasty financial sting

6 Jan 2015 at 13:02, Darren Pauli

Bots are crawling all over GitHub seeking secret keys, a developer served with a $2,375 Bitcoin mining bill found.

DevFactor founder Andrew Hoffman said he used Figaro to secure Rails apps which published his Amazon S3 keys to his GitHub account.

He noticed the blunder and pulled the keys within five minutes, but that was enough for a bot to pounce and spin up instances for Bitcoin mining.

"When I woke up the next morning, I had four emails and a missed phone call from Amazon AWS - something about 140 servers running on my AWS account," Hoffman said.

"I only had S3 keys on my GitHub and they were gone within five minutes!"

http://www.theregister.co.uk/2015/01/06/dev_blunder_shows_github_crawling_with_keyslurping_bots/

OneDrive

Free 1 TB of storage (+ Word, Excel, Powerpoint)

Good for general **file sharing, syncing, and backup**

https://ai.oit.gatech.edu/onedrive