

<http://poloclub.gatech.edu/cse6242>

CSE6242 / CX4242: **Data** & **Visual** Analytics

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

**OneDrive**

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# 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>

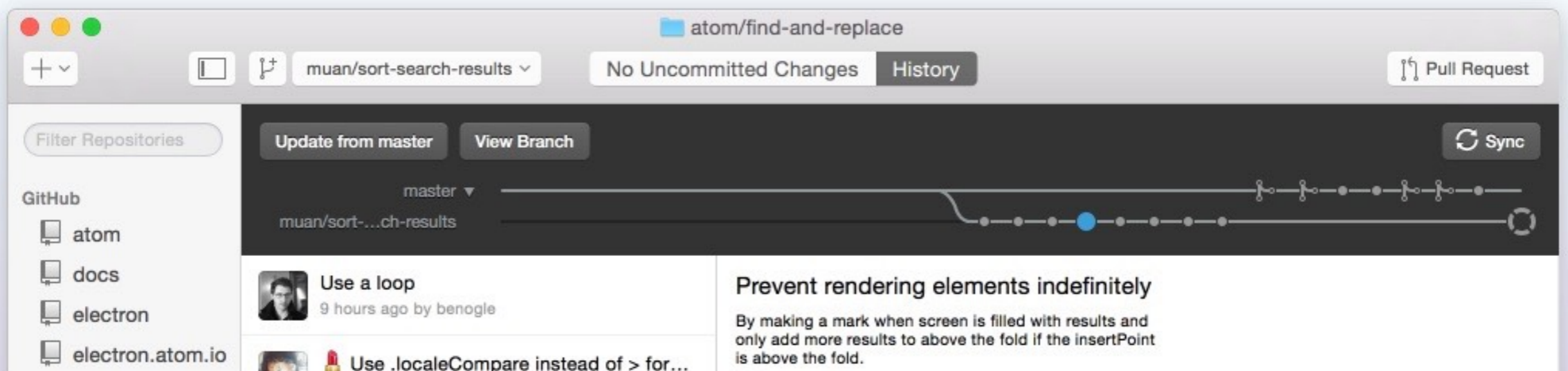
# github.gatech.edu

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 by 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

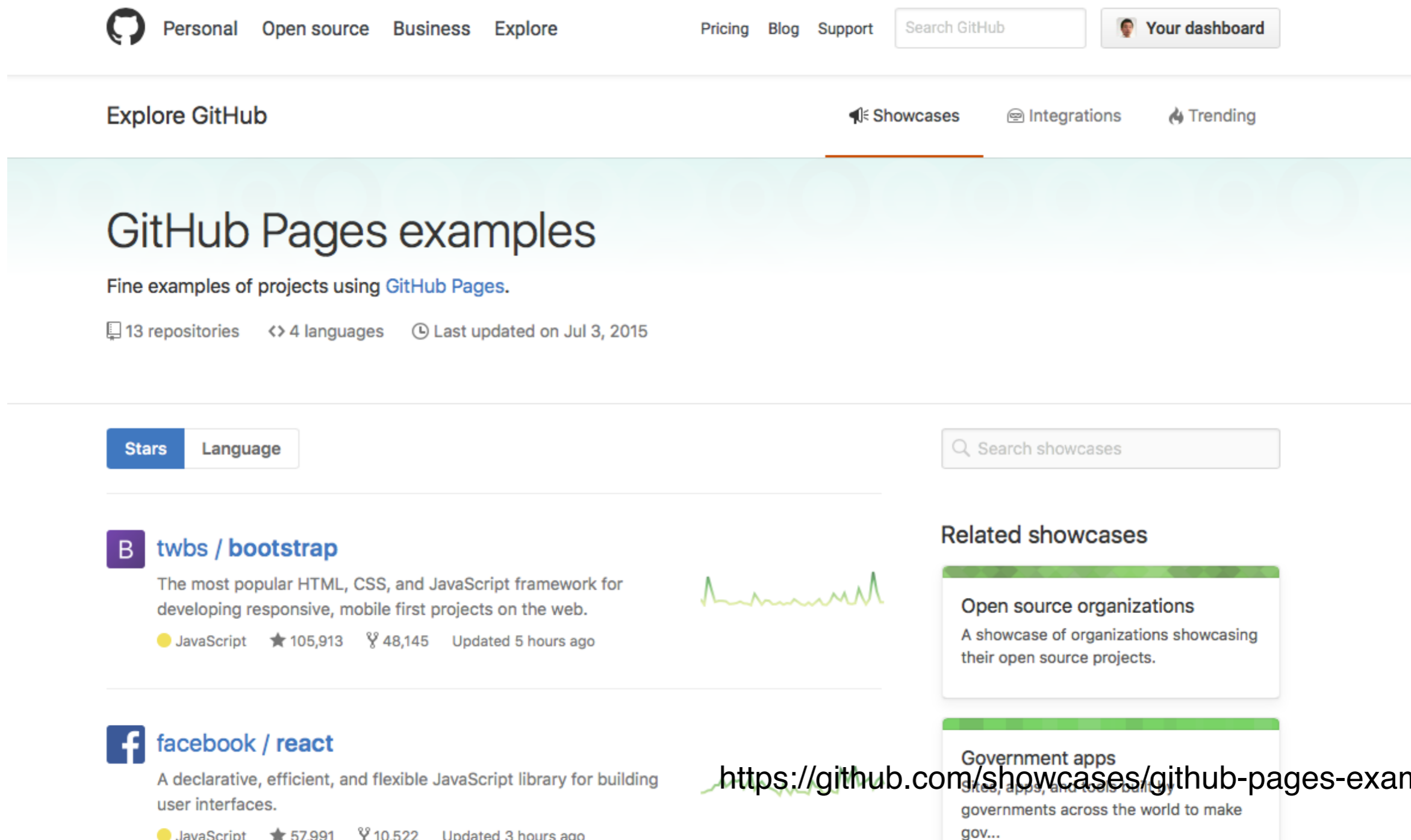
Github provides easy-to-use **FREE** desktop clients for Mac and Windows (<https://desktop.github.com>)

- 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



The screenshot shows the GitHub website's 'Showcases' page. At the top, there are navigation links for 'Personal', 'Open source', 'Business', and 'Explore', along with 'Pricing', 'Blog', and 'Support'. A search bar and a 'Your dashboard' button are also visible. Below the navigation, there are links for 'Explore GitHub', 'Showcases', 'Integrations', and 'Trending'. The main heading is 'GitHub Pages examples', with a subtitle 'Fine examples of projects using GitHub Pages.' Below this, it says '13 repositories', '4 languages', and 'Last updated on Jul 3, 2015'. There are two tabs: 'Stars' (selected) and 'Language'. A search bar for 'Search showcases' is present. The first showcase is for 'twbs / bootstrap', described as 'The most popular HTML, CSS, and JavaScript framework for developing responsive, mobile first projects on the web.' It has 105,913 stars and 48,145 forks. The second showcase is for 'facebook / react', described as 'A declarative, efficient, and flexible JavaScript library for building user interfaces.' It has 57,991 stars and 10,522 forks. On the right, there are 'Related showcases' including 'Open source organizations' and 'Government apps'. A URL is overlaid at the bottom: <https://github.com/showcases/github-pages-examples>.

# WARNING

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

**Why??**



## 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!"

### More like this

[Amazon](#)[Theft](#)[Github](#)

**FOCUS ON  
BUSINESS. WE  
HAVE OPEN  
COVERED.**

– Public/private/hybrid  
for best fit

– 1 billion+ hours oper

# OneDrive

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

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



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