

poloclub.github.io/#cse6242

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

Extremely Important: Code backup & version control

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Why back up your code?

- **Computer dies**, and sometimes **at the most inconvenient times** (e.g., right before deadline)
- Replacing computer is easy, **recreating lost work and data is not.**
- Polo highly recommends **github.gatech.edu** (i.e., git repository)
- Git is the most popular version control system in software development. <https://en.wikipedia.org/wiki/Git>

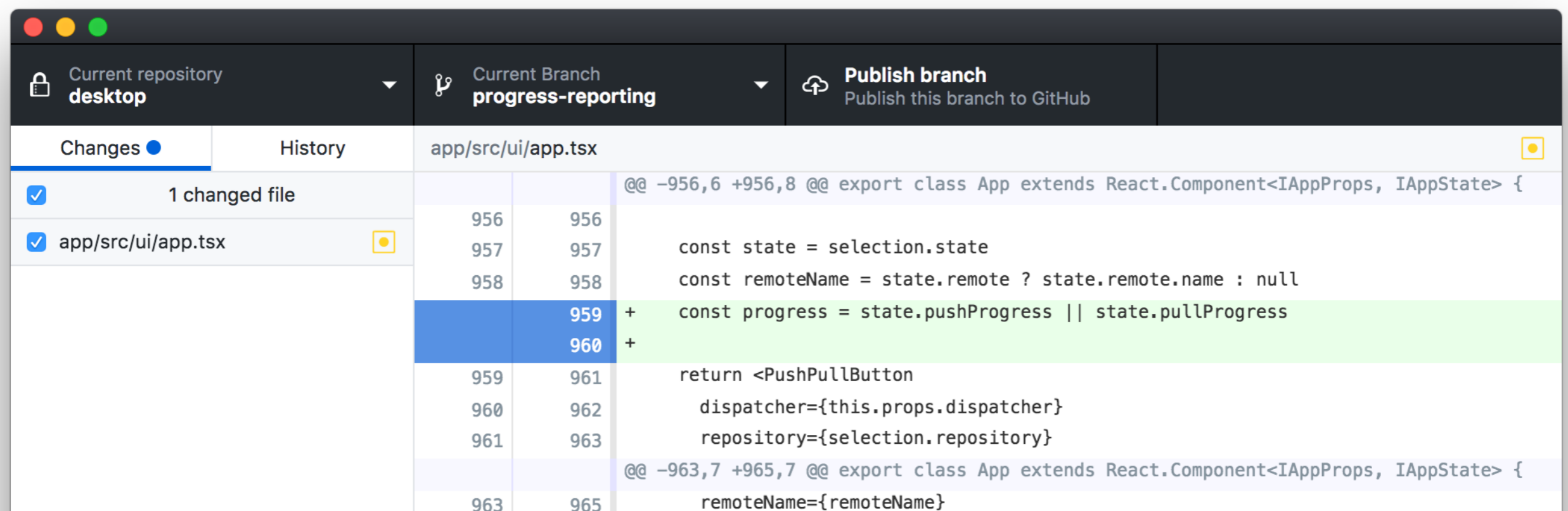
github.gatech.edu

1. **Backs up** code
2. Provides **version control**
 - You can **revert to older versions** when needed
3. Supports code **branching** and **collaboration**
 - Easy to collaboratively develop new features
be integrating them into "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



GitHub Pages as free websites

- One click to enable for your GitHub repo.
- This course's website is a GitHub Page.
- Whenever you commit a change, your site is updated.



The screenshot shows the GitHub Pages examples page. At the top, the title "GitHub Pages examples" is displayed in a light blue header. Below the title, a subtitle reads "Fine examples of projects using GitHub Pages." and a summary line indicates "13 repositories", "4 languages", and "Last updated on Jul 3, 2015". The main content area features two tabs: "Stars" (selected) and "Language". A search bar labeled "Search showcases" is positioned on the right. 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 shows 105,913 stars and 48,145 forks, updated 5 hours ago. The second showcase is for "facebook / react", described as "A declarative, efficient, and flexible JavaScript library for building user interfaces." It shows 57,991 stars and 10,522 forks, updated 3 hours ago. On the right side, there are two "Related showcases" sections: "Open source organizations" and "Government apps".

GitHub Pages examples

Fine examples of projects using [GitHub Pages](#).

13 repositories <> 4 languages Last updated on Jul 3, 2015

Stars Language

Search showcases

B twbs / bootstrap

The most popular HTML, CSS, and JavaScript framework for developing responsive, mobile first projects on the web.

JavaScript ★ 105,913 🍴 48,145 Updated 5 hours ago

f facebook / react

A declarative, efficient, and flexible JavaScript library for building user interfaces.

JavaScript ★ 57,991 🍴 10,522 Updated 3 hours ago

Related showcases

Open source organizations

A showcase of organizations showcasing their open source projects.

Government apps

Sites, apps, and tools built by governments across the world to make gov...

<https://github.com/showcases/github-pages-examples>

WARNING

Set you repo to private.

**Unless you are 100% sure you want it
to be public.**

**And you must keep your homework
code private!**

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

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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>