CSE6242 / CX4242: Data & Visual Analytics

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

OneDrive

Duen Horng (Polo) Chau
Associate Professor, College of Computing
Associate Director, MS Analytics
Machine Learning Area Leader, College of Computing
Georgia Tech

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

<u>github.gatech.edu</u>

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

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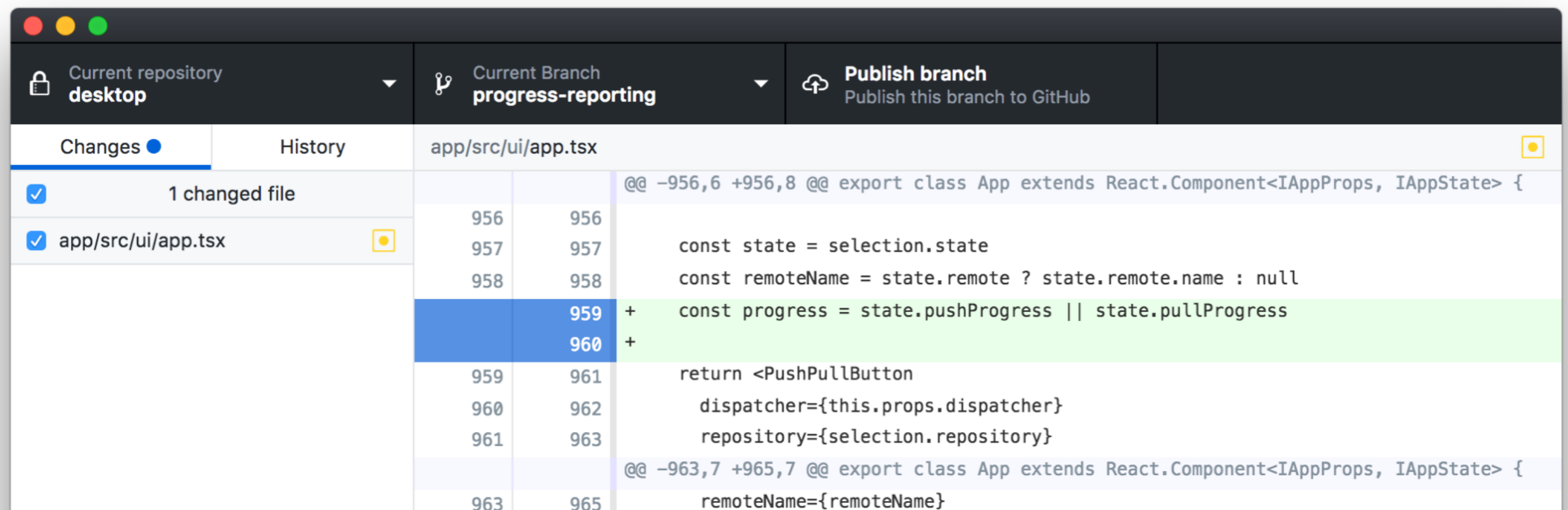
Github Pages as free websites

- 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.

GitHub Pages examples

Fine examples of projects using GitHub Pages.

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

| Stars | Language |

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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...

5

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

WARNING

Set you repo to **private**.

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

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