

# Git & GitHub



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University of Texas at Arlington  
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# What is Git?

Git is a widely used source code management system... A distributed revision control system with an emphasis on speed, data integrity, and support for distributed, non-linear workflows. - *Wikipedia*

# What is Git?

"FINAL".doc



FINAL.doc!



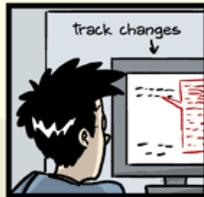
FINAL\_rev.2.doc



FINAL\_rev.6.COMMENTS.doc



FINAL\_rev.8.comments5.  
CORRECTIONS.doc



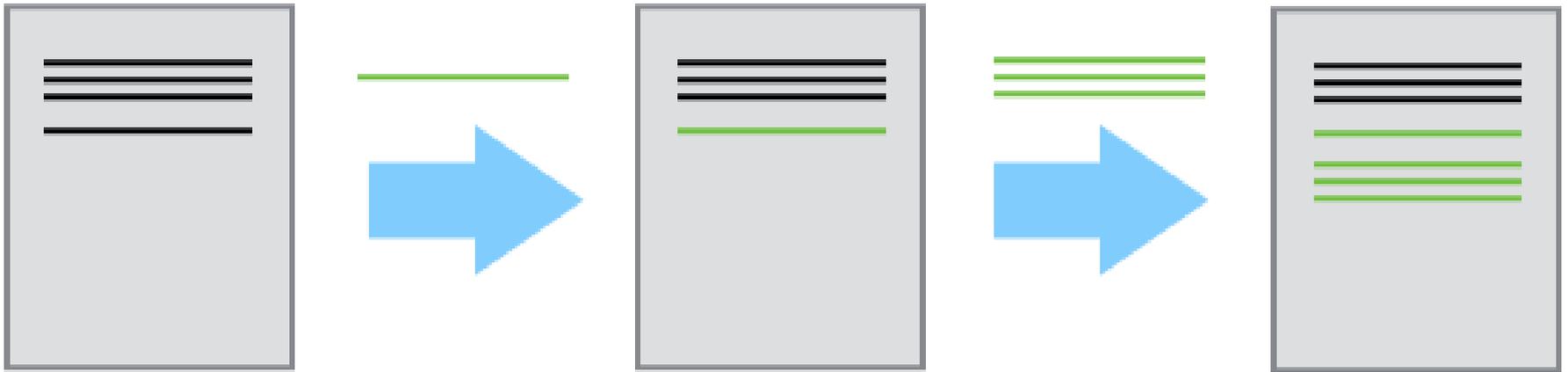
FINAL\_rev.18.comments7.  
corrections9.MORE.30.doc



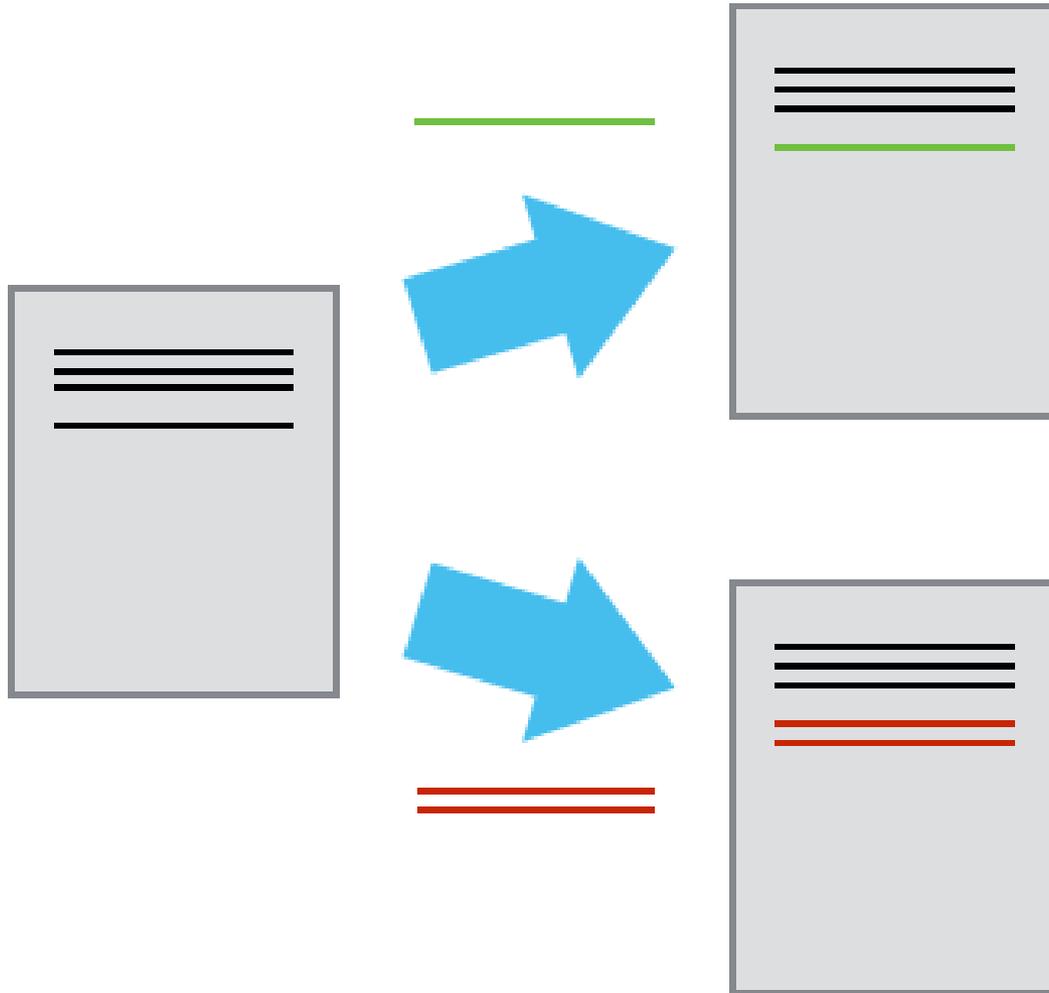
FINAL\_rev.22.comments49.  
corrections.10.#@\$%WHYDID  
ICOMETOGRADSCHOOL????.doc

JORGE CHAM © 2012

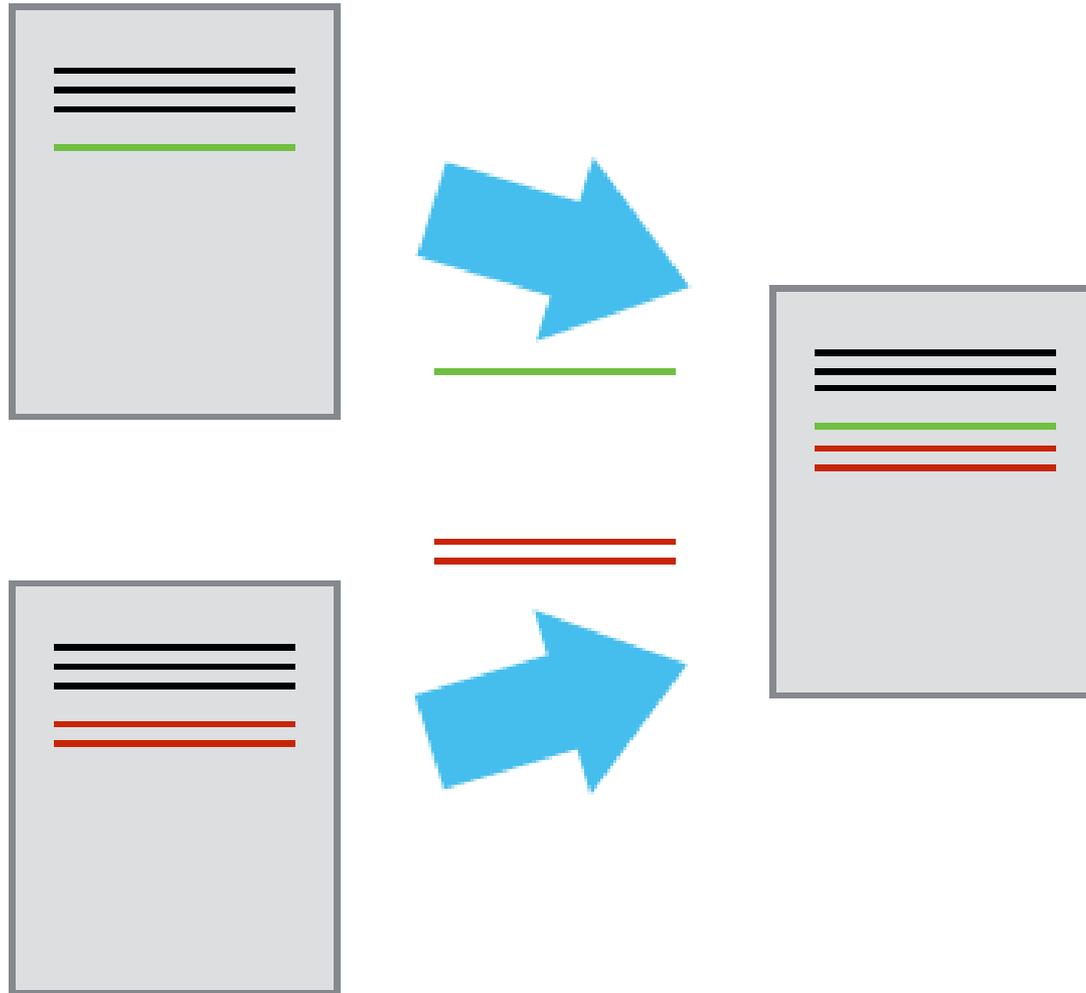
# What is Git?



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# What is Git?



# What is GitHub?

A web-based Git repository hosting service, combining the functionality of Git with additional features including a graphical interface, access control, bug tracking, feature requests, task management, wikis, and repository sharing. – *Wikipedia*

# What is GitHub?

The screenshot shows the GitHub interface for the Google repository. At the top, there is a search bar with the GitHub logo, navigation links for 'Pull requests', 'Issues', and 'Gist', and a notification bell. The main header features the Google logo and the repository name 'Google' with a link to 'https://developers.google.com/'. Below this, there are tabs for 'Repositories' and 'People' (700). A search bar for repositories is present with a 'Filters' dropdown. The repository list shows three items: 'cloudprint\_logocert' (Python, 3 stars, 1 fork), 'dotty' (Python, 9 stars, 4 forks), and 'error-prone' (Java, 803 stars, 66 forks). On the right, a 'People' section displays a grid of 12 profile pictures, with a 'Developer Program Member' badge below it.

Search GitHub

Pull requests Issues Gist

Google <https://developers.google.com/>

Repositories People 700

Filters - Find a repository...

**cloudprint\_logocert** Python ★ 3 🍴 1  
Google Cloud Print Logo Certification Automation  
Updated 14 minutes ago

**dotty** Python ★ 9 🍴 4  
Updated 30 minutes ago

**error-prone** Java ★ 803 🍴 66  
Catch common Java mistakes as compile-time errors  
Updated an hour ago

People 700 >

Developer Program Member

# What is GitHub?

google / **cloudprint\_logcert** Watch 8 Star 3 Fork 1

[Code](#) [Issues 3](#) [Pull requests 0](#) [Wiki](#) [Pulse](#) [Graphs](#)

## Google Cloud Print Logo Certification Automation

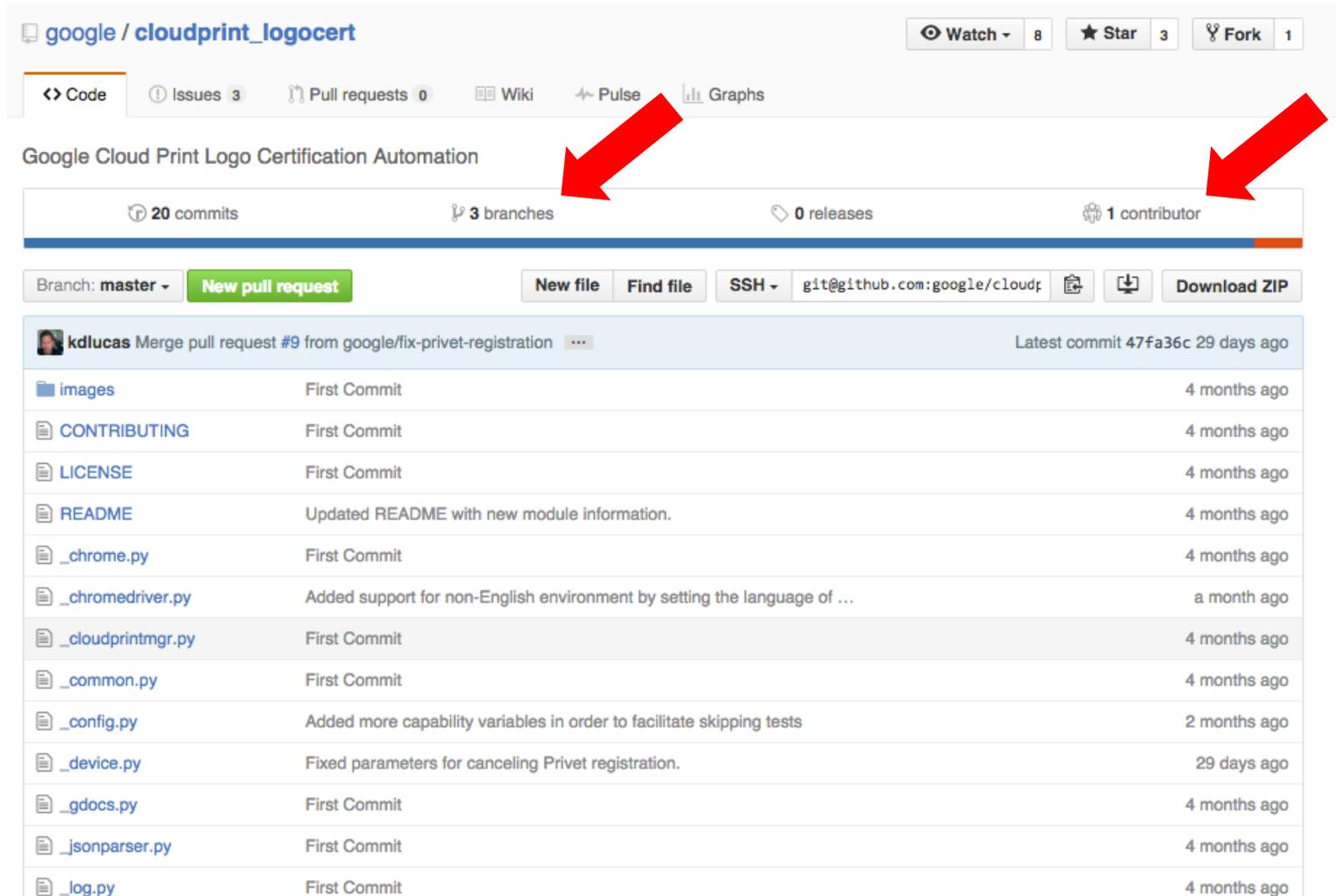
20 commits   3 branches   0 releases   1 contributor

Branch: **master** [New pull request](#) [New file](#) [Find file](#) [SSH](#) `git@github.com:google/cloudp` [Download ZIP](#)

**kdlucas** Merge pull request #9 from google/fix-privet-registration   Latest commit 47fa36c 29 days ago

images	First Commit	4 months ago
CONTRIBUTING	First Commit	4 months ago
LICENSE	First Commit	4 months ago
README	Updated README with new module information.	4 months ago
_chrome.py	First Commit	4 months ago
_chromedriver.py	Added support for non-English environment by setting the language of ...	a month ago
_cloudprintmgr.py	First Commit	4 months ago
_common.py	First Commit	4 months ago
_config.py	Added more capability variables in order to facilitate skipping tests	2 months ago
_device.py	Fixed parameters for canceling Privet registration.	29 days ago
_gdocs.py	First Commit	4 months ago
_jsonparser.py	First Commit	4 months ago
_log.py	First Commit	4 months ago

# What is GitHub?



The screenshot shows the GitHub interface for the repository 'google/cloudprint\_logcert'. At the top, the repository name is displayed with navigation links for Code, Issues (3), Pull requests (0), Wiki, Pulse, and Graphs. Below this, the repository title 'Google Cloud Print Logo Certification Automation' is shown. A summary bar indicates 20 commits, 3 branches, 0 releases, and 1 contributor. Two red arrows point to the repository name and the contributor count. Below the summary bar, there are buttons for 'New pull request', 'New file', 'Find file', 'SSH', and 'Download ZIP'. The main content area shows a list of files and their commit history, including folders like 'images' and files like 'CONTRIBUTING', 'LICENSE', 'README', and various Python scripts.

google / **cloudprint\_logcert** Watch 8 Star 3 Fork 1

Code Issues 3 Pull requests 0 Wiki Pulse Graphs

Google Cloud Print Logo Certification Automation

20 commits 3 branches 0 releases 1 contributor

Branch: master - New pull request

New file Find file SSH git@github.com:google/cloudprint\_logcert Download ZIP

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google / **cloudprint\_logcert** Watch 8 Star 3 Fork 1

Code Issues 3 Pull requests 0 Wiki Pulse Graphs

Google Cloud Print Log Certification Authentication

20 commits 0 releases 1 contributor

Branch: master - New pull request New file Find file SSH git@github.com:google/cloudprint\_logcert Download ZIP

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[Code](#) [Issues 3](#) [Pull requests 0](#) [Wiki](#) [Pulse](#) [Graphs](#)

Google Cloud Print Logo Certification Automation 

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# Overview of the lesson

Learners will complete the following broad tasks:

1. Fork a website template repository on GitHub and use Git locally to pull this repository onto their computer.
2. Make necessary changes to setup the website and then add content, using Markdown, while learning the basics of Git.
3. Push local changes back to remote repository at GitHub, which then automatically builds and displays the website.
4. Users will conclude by populating their website with all materials and overviews of the lessons for the Software Carpentry workshop they participated in. This will allow them to reference this information later.

# Glance at all the commands

- git config
- git clone
- git status
- git add
- git commit
- git push