

CREATIVE CODING & OPEN SOURCE

DCC DESIGN CAMP

SEPT 19 & 21 @ 5PM

CAROLINE DINH (she/they), DCC MU

WINDOWS USERS: Please install **NOTEPAD++** if you haven't already (version doesn't matter): <https://notepad-plus-plus.org/downloads/>

AGENDA

DAY 1:

- ★ Get comfortable BREAKING THINGS with **GLITCH ART**
- ★ Dive into LIVE-CODING with **HYDRA**

DAY 2:

- ★ Learn about the relationship between CREATIVE CODING & OPEN SOURCE
- ★ Contribute to an open-source “workshop portfolio” on **GITHUB**

WINDOWS USERS: Please install **NOTEPAD++** if you haven't already (version doesn't matter): <https://notepad-plus-plus.org/downloads/>

WARM UP:



"Glitch refuses . . . We **fail to function**
for a machine that was **not built for us**."

"We are the most **fantastic and**
beautiful mistake. Never meant to survive,
we are still here: an error in the algorithm... We
will reconfigure ourselves as we see fit. Modifying
and recoding, we choose our own names, build our own
families and communities, proudly fail in the present
as we **dream new futures.**"

Legacy Russell, writer and exhibition curator

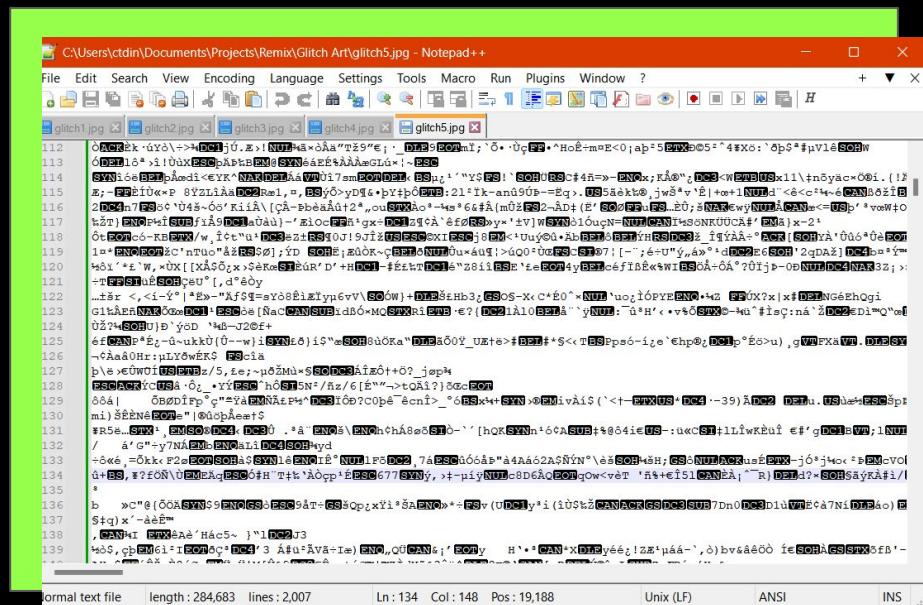
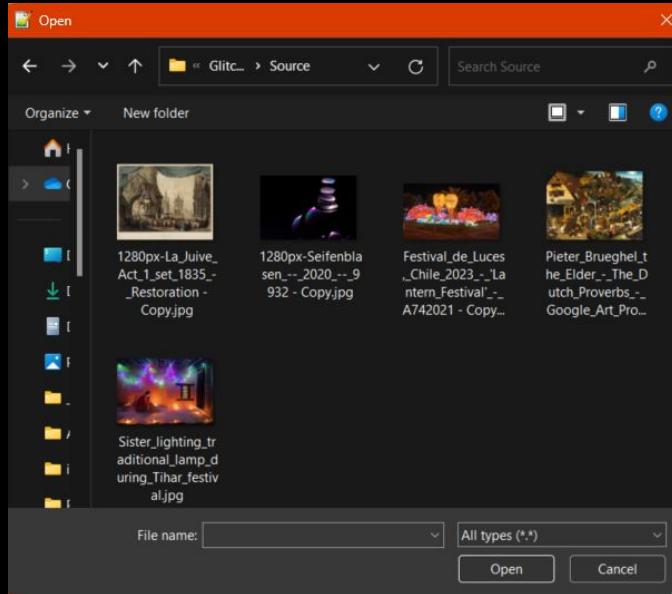


1: SAVE IMGS (& ATTRIBUTIONS) FROM WIKIMEDIA COMMONS

https://commons.wikimedia.org/wiki/Commons:Quality_images

2: MAKE
COPIES!! OF
YOUR FILES!!

3: OPEN THEM IN NOTEPAD++ (WINDOWS) OR TEXTEDIT (MAC)



8. GO HAM!!!! THINGS YOU CAN TRY

1. CUT A PIECE OF THE ENCODING & PASTE IT SOMEWHERE ELSE
2. SCROLL TO A RANDOM POSITION & KEYSMASH
3. COPY CHARACTERS FROM ONE IMAGE TO ANOTHER
4. FIND & REPLACE (BEST WITH SEQUENCES OF 2-3 CHARS)
5. SIGN UR NAME, OR A WORD THAT MEANS SOMETHING TO YOU

REFLECTIONS

1. What did you try? (Anything not listed on the slide?)
2. What worked? What didn't work? What decisions did you make while glitching?
3. Did you break anything? How could you tell? How did you recover?
4. Are you proud of the final product?

“As a form of protest . . . glitch witnesses and testifies to the slippages, cracks, and fissures of control, surveillance, and technology to reformat **error as an act of resistance** . . . Glitch art exploits the instability of technology and harnesses failure as a creative tool to corrupt the familiar.”

[Andie Shabbar](#), gender/sexuality and media professor

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Andie Shabbar: **QUEER-ALT-** **DELETE**



SOME ART
HISTORY

READYMADES

WORKS OF ART MADE FROM MANUFACTURED OR FOUND OBJECTS



"Fountain." Marcel Duchamp, 1917



"Lobster Telephone." Salvador Dalí, 1938



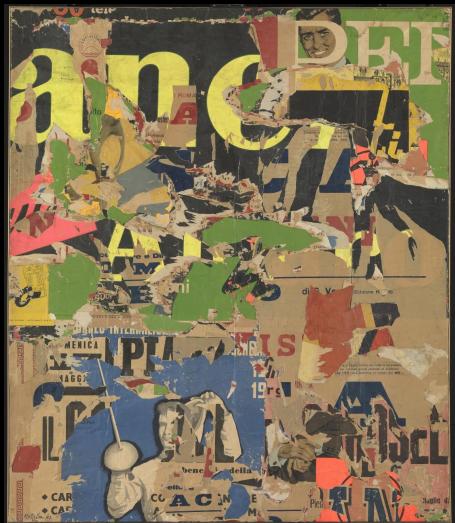
"My Bed." Tracy Emin, 1998

"New media objects are rarely created completely from scratch; usually they are assembled from **ready-made parts**. Put differently, in computer culture authentic creation has been replaced by selection from a menu. In the process of creating a new media object, the designer selects from libraries of 3D models and texture maps, sounds and behaviors, background images and buttons, filters and transitions."

[Lev Manovich](#), new media theorist and professor

DÉCOLLAGE

WORKS OF ART MADE BY UNSTICKING LAYERS OF POSTERS



"With A Smile." Mimmo Rotella,
1962



"Jazzmen." Jacques Mahé de la
Villeglé, 1961



"Untitled." Mimmo Rotella, 1958

“A hacker punching 1’s and 0’s into a file to invoke broken shards of colorful pixels exposes the digital medium for what it is ... The décollage process was one of **forced entropy and decay**, prompting chaotic situations and leaving the audience to piece the works back together in their minds. In this way glitch art is like Décollage.”

[Nicola Bortignon](#), engineering director at Meta

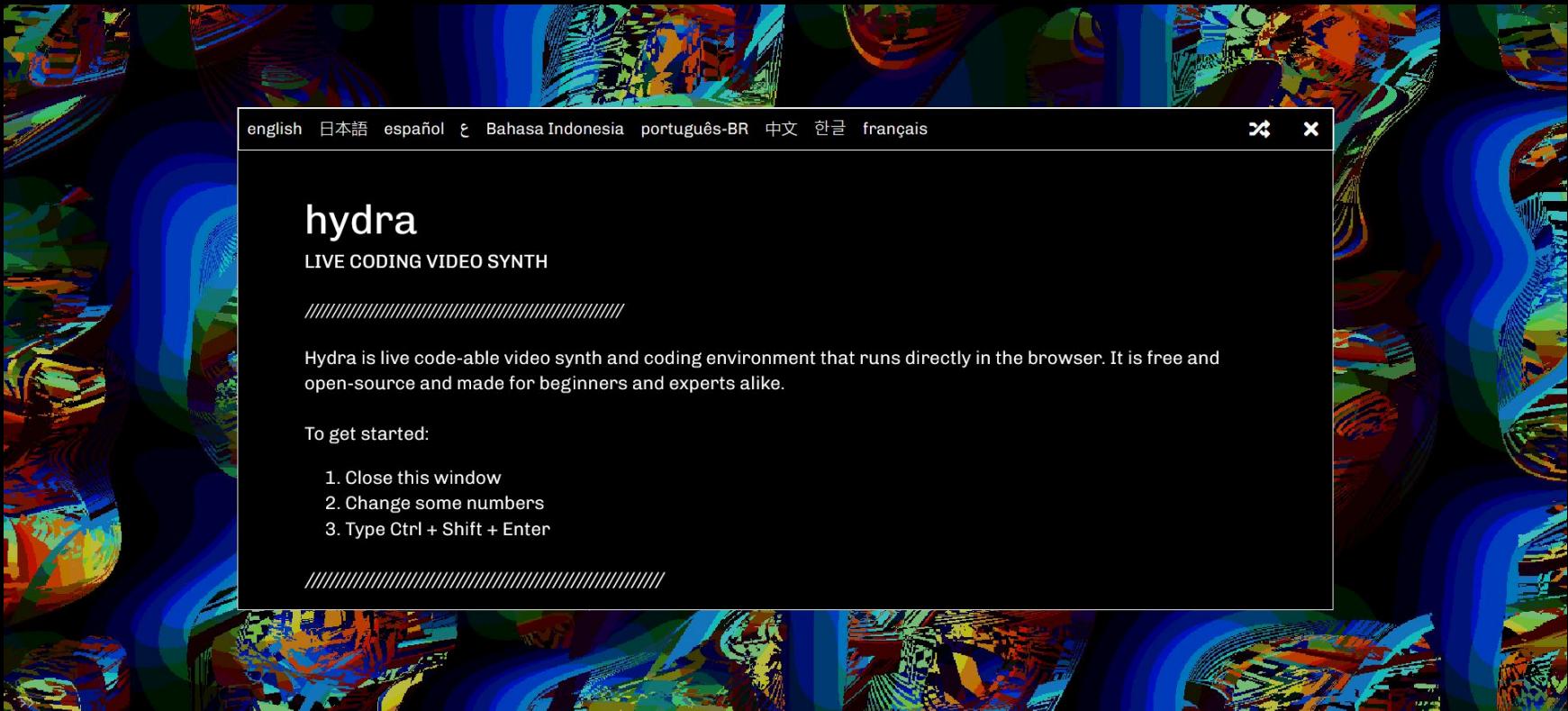
LIVE CODING



"[Live coding] **challenges the conventional distinction** between performance and composition, by notating music at performance time . . . Furthermore, controlling digital technologies through code rather than a pre-programmed GUI promises **user empowerment** . . . the combination of these two factors – interpretation and empowerment – are fundamentally creative yet, also, potentially **disruptive to prior educational agendas.**"

[Samuel Aaron](#), creator of Sonic Pi





HYDRA.OJACK.XYZ

EXERCISE 0.5

1. Open Hydra and press the “shuffle” button until you find a design that you like.
2. Put a line break before every white dot (.) - NOT the purple dots

```
//COMMENT THINGS OUT AND CHANGE SOME  
NUMBERS AROUND AND SEE WHAT HAPPENS!!
```

Reflections

1. Did you ever get an error? How could you tell?
2. What does `.out()` do? What happens if you delete it?
3. Were there any lines that would BREAK the code if you deleted it?
4. What kinds of things can you find IN BETWEEN a set of parentheses?
5. Which functions were the easiest for you to understand?
The hardest?

EXERCISE 1

1. Open and explore the Hydra API
(<https://hydra.0jack.xyz/api/>)
 - i. API: Application Programming Interface
2. Create a composition by COPY & PASTING together different examples from the API

Reflections

1. What does each “category” of functions do:

source

geometry

color

blend

modulate

2. What are some ways you could make your composition INTERACTIVE?
3. Are you proud of your work?

EXERCISE 2

Now, **WRITE SOMETHING FROM SCRATCH!!**

As an extra challenge, try not to copy-and-paste anything at all.

BOOKMARK YOUR TAB OR SAVE YOUR CODE

SOMEWHERE BECAUSE WE WILL USE IT ON DAY 2

“The **moment of genuine surprise** is often the moment of breakthrough... ‘Genuine surprise’ marks the reader's confrontation with a **complete lack of control.**”

- [Howe and Soderman](#), artists & researchers

The power of Remix is that it makes
obvious that there is no limit to
recombinations in terms of ideas and/or
forms.

Eduardo Navas, Remix Theory

DAY 2:
OPEN SOURCE

Open Source

A community-driven approach to developing +
maintaining software where anyone can access
the source code & edit it themselves

Processing

Open source creative
coding tool &
COMMUNITY

Originally built for
education &
workshops

Processing
Foundation →
Processing, p5.js,
processing.py...



Image courtesy of Jonathan Chaffer via [AtomicObject](#)

“For me, learning how to code was entirely based on the willingness of other people to share their stuff... Later that started getting wrapped up in the **open-source movement.** There was a certain amount of “paying it forward” but also just going back to the idea of, how do you set a baseline for the community around the **willingness to share?** How do we try to get away from the obfuscation of things and closer to the **explanation** of them?”

-[Ben Fry](#), co-creator of Processing

As the "professional" technology becomes **accessible to amateurs**, the new media professionals create new standards, formats and design expectations to maintain their status. Thus, the continuous introduction of new Web design "features" . . . can be in part explained as the strategy employed by the professionals to keep themselves **ahead of homeusers**."

Lev Manovich

"The thing that felt really important to me about Processing was not necessarily what the potential is to create, although that feels really expansive. But the potential to **change how these things are seen**, what code can be, and **what people who contribute to software projects could look like.**"

-[Johanna Hedva](#), Processing Foundation member

Who can contribute to open source

- ONLY DEVELOPERS. YOU MUST KNOW HOW TO CODE.
- Just kidding
- Documentation writers
- Designers
- Testers
- Translators
- Typo-catchers
- PEOPLE WHO LOVE THE PROJECT

Processing v.4 issues ([src](#))

Filters ▾ is:issue is:open

Labels 18

Milestones 0

New issue

114 Open ✓ 441 Closed

Author ▾ Label ▾ Projects ▾ Milestones ▾ Assignee ▾ Sort ▾

① [Linux] P2D and P3D renderers don't set a window class

#777 opened 2 days ago by ColdMacaroni

① export with java not embeded on windows does not launch program

#775 opened last week by jSdCool

① keyPressed() does not always fire after starting sketch

#766 opened 3 weeks ago by sterretjeToo

① hang when running sketch and “transport error 202: bind failed: Permission denied” in console Windows

#761 opened on Jul 31 by RichardDL99

1

① Error Dialog for Invalid Filenames is Incomplete

#754 opened on Jul 24 by chipbuster

① SVG loading causes ArrayIndexOutOfBoundsException with some files Help Wanted

#750 opened on Jul 15 by villares

1

① Processing IDE lock-up with Find Help Wanted

#742 opened on Jul 9 by RichardDL99

1

Processing website issues ([src](#))

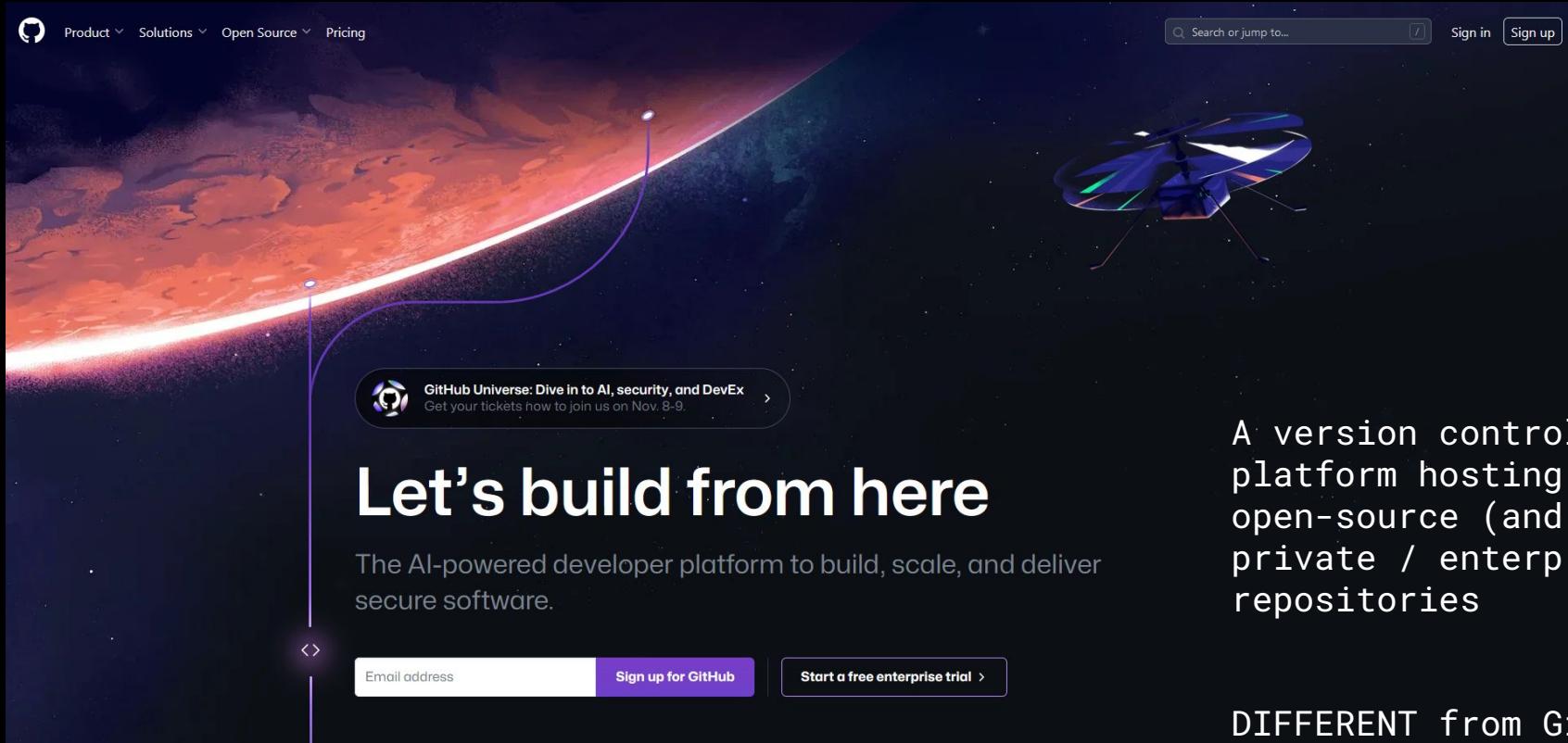
Filters ▾ Q is:open is:issue Labels 13 Milestones 0 New issue

[X](#) Clear current search query, filters, and sorts

⌚ 92 Open ✓ 129 Closed Author ▾ Label ▾ Projects ▾ Milestones ▾ Assignee ▾ Sort ▾

⌚ Incorrect link in PFont reference #468 opened on Jul 30 by glvjr	1
⌚ Rename "Featured functions" to a More Generic Term <small>Enhancement Examples</small>	1
⌚ Typos in PVector tutorial #464 opened on Jul 7 by farm402	1
⌚ Add examples for Topics/Texture into the website #456 opened on Apr 8 by EshaanAgg <small>5 tasks</small>	
⌚ The Environment page has a text overflow in the sidebar on the left side #453 opened on Mar 15 by harshalati2410	8
⌚ The Environment Page is Not responsive for mobile phones #450 opened on Mar 7 by nikhilhvr	1
⌚ Add "Open in Processing" link to code examples <small>Examples Help Wanted</small> #446 opened on Feb 20 by SableRaf	12

GITHUB



The GitHub homepage features a large banner image of the planet Mars with a satellite in orbit. A purple curved line and a vertical line from the left margin intersect the banner, highlighting a call-to-action button.

GitHub Universe: Dive in to AI, security, and DevEx
Get your tickets now to join us on Nov. 8-9. >

Let's build from here

The AI-powered developer platform to build, scale, and deliver secure software.

<>

Email address

Sign up for GitHub [Sign up](#)

Start a free enterprise trial > [Start trial](#)

Search or jump to... [Go](#)

Sign in [Sign up](#)

A version control platform hosting open-source (and private / enterprise) repositories

DIFFERENT from Git

Vocabulary

Git: a version control SYSTEM

GitHub: a version control SOFTWARE that USES Git

Repository: a storage location (aka folder) containing code and other files / assets

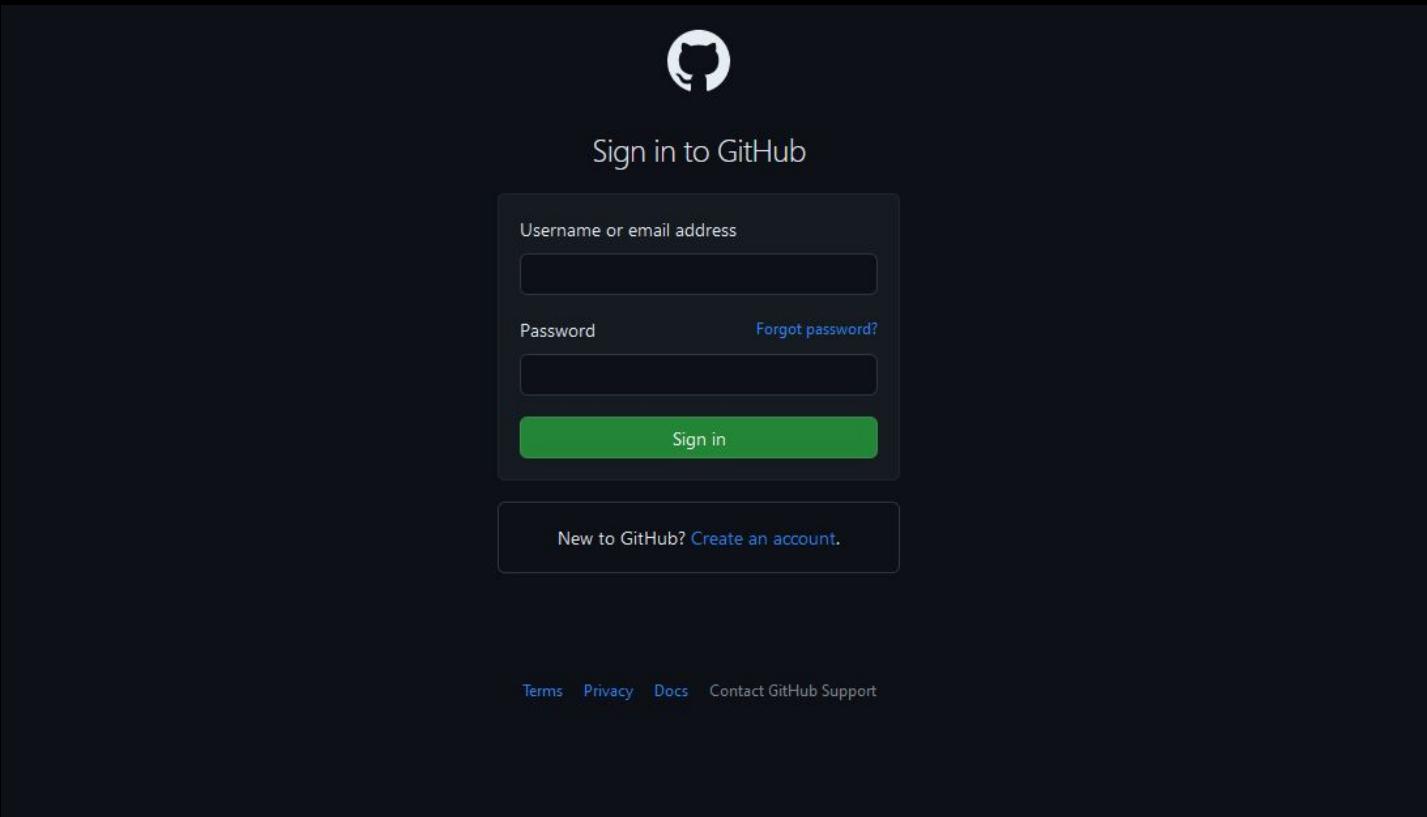
Fork: a copy of a repository in a different location (compare with “branch”)

Pull request: A proposal of changes to the repository

Code review: Looking over another developer’s pull request to APPROVE it or to provide feedback

Merge: To update a repository with changes from a different location

SIGN UP OR SIGN IN ON GITHUB.COM



The image shows a screenshot of the GitHub sign-in page. At the top center is the GitHub logo (a white octocat icon inside a dark circle). Below it is the text "Sign in to GitHub". The main form has two input fields: "Username or email address" and "Password", followed by a "Forgot password?" link. A large green "Sign in" button is at the bottom of the form. Below the form is a box containing the text "New to GitHub? [Create an account.](#)". At the very bottom of the page, there are links for "Terms", "Privacy", "Docs", and "Contact GitHub Support".

Sign in to GitHub

Username or email address

Password [Forgot password?](#)

Sign in

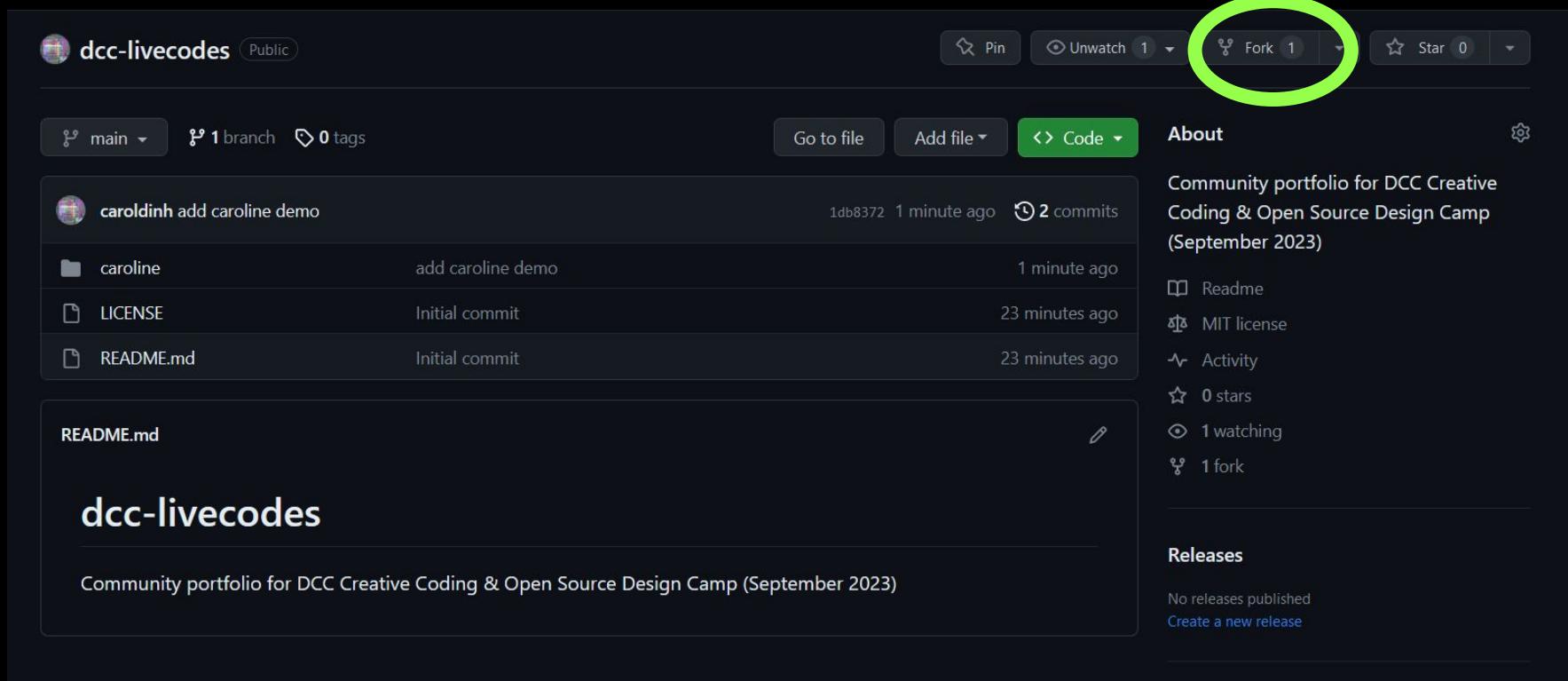
New to GitHub? [Create an account.](#)

Terms Privacy Docs Contact GitHub Support

CONTRIBUTING

[HTTPS://GITHUB.COM/CAROLDINH/DCC-LIVECODES](https://github.com/caroldinh/dcc-livecodes)

1. FORK the repository



The screenshot shows a GitHub repository page for "dcc-livecodes". The top navigation bar includes options like "Pin", "Unwatch", "Fork", and "Star". A green circle highlights the "Fork" button. Below the header, there's a summary of branches and tags, followed by a list of commits from "caroldinh". On the right side, there's an "About" section with a description of the repository as a "Community portfolio for DCC Creative Coding & Open Source Design Camp (September 2023)". It also lists "Readme", "MIT license", "Activity", "0 stars", "1 watching", and "1 fork". At the bottom, there's a preview of the README.md file content.

dcc-livecodes Public

Pin Unwatch 1 Fork 1 Star 0

main 1 branch 0 tags

Go to file Add file Code

caroldinh add caroline demo 1db8372 1 minute ago 2 commits

caroline add caroline demo 1 minute ago

LICENSE Initial commit 23 minutes ago

README.md Initial commit 23 minutes ago

README.md

dcc-livecodes

Community portfolio for DCC Creative Coding & Open Source Design Camp (September 2023)

About

Community portfolio for DCC Creative Coding & Open Source Design Camp (September 2023)

Readme MIT license Activity 0 stars 1 watching 1 fork

Releases

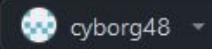
No releases published Create a new release

Create a new fork

A *fork* is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project.

Required fields are marked with an asterisk ().*

Owner *



cyborg48

Repository name *

/dcc-livecodes

dcc-livecodes is available.

By default, forks are named the same as their upstream repository. You can customize the name to distinguish it further.

Description (optional)

Community portfolio for DCC Creative Coding & Open Source Design Camp (September 2023)

Copy the main branch only

Contribute back to caroldinh/dcc-livecodes by adding your own branch. [Learn more.](#)

You are creating a fork in your personal account.

[Create fork](#)

2. Open folder with your name

Screenshot of a GitHub repository page for "dcc-livecodes".

The repository is public and forked from "caroldinh/dcc-livecodes".

Branch: main (1 branch, 0 tags)

This branch is up to date with caroldinh/dcc-livecodes:main.

Code navigation: Go to file, Add file, Code (dropdown).

Repository details:

- Caroline demo (commit by caroldinh, 3 minutes ago, 2 commits)
- caroline (file added, 3 minutes ago)
- LICENSE (file added, 25 minutes ago)
- README.md (file added, 25 minutes ago)

Activity:

- Readme
- MIT license
- Activity
- 0 stars
- 0 watching
- 1 fork

Releases:

No releases published
Create a new release

Footer:

dcc-livecodes

Community portfolio for DCC Creative Coding & Open Source Design Camp (September 2023)

3. Upload files in your folder

The screenshot shows a GitHub repository interface. On the left, the 'Files' tab is selected, displaying a list of files: README.md, hydra.js, LICENSE, README.md, and pull_request_template.md. A dropdown menu is open in the top right corner, showing options like 'Add file', '+ Create new file', and 'Upload files'. The 'Upload files' option is highlighted with a large green circle. The main area shows a commit history for the 'caroline' branch, which is 3 commits ahead of 'caroldinh/dcc-livecodes:main'. The commits are:

Name	Last commit message	Last commit date
...		
README.md	Update README.md	50 minutes ago
hydra.js	Create hydra.js	1 hour ago

Below the commit history, there is a section titled 'About my code' with the following text:

I made this piece to demonstrate Hydra for the workshop. I created it by referencing the documents and throwing together some functions I thought would look cool together. It ends up looking very spacey. I call it "Nebulous."



Drag additional files here to add them to your repository

Or choose your files

glitch3copy.jpg

x



Commit changes

Add files via upload

Add an optional extended description...

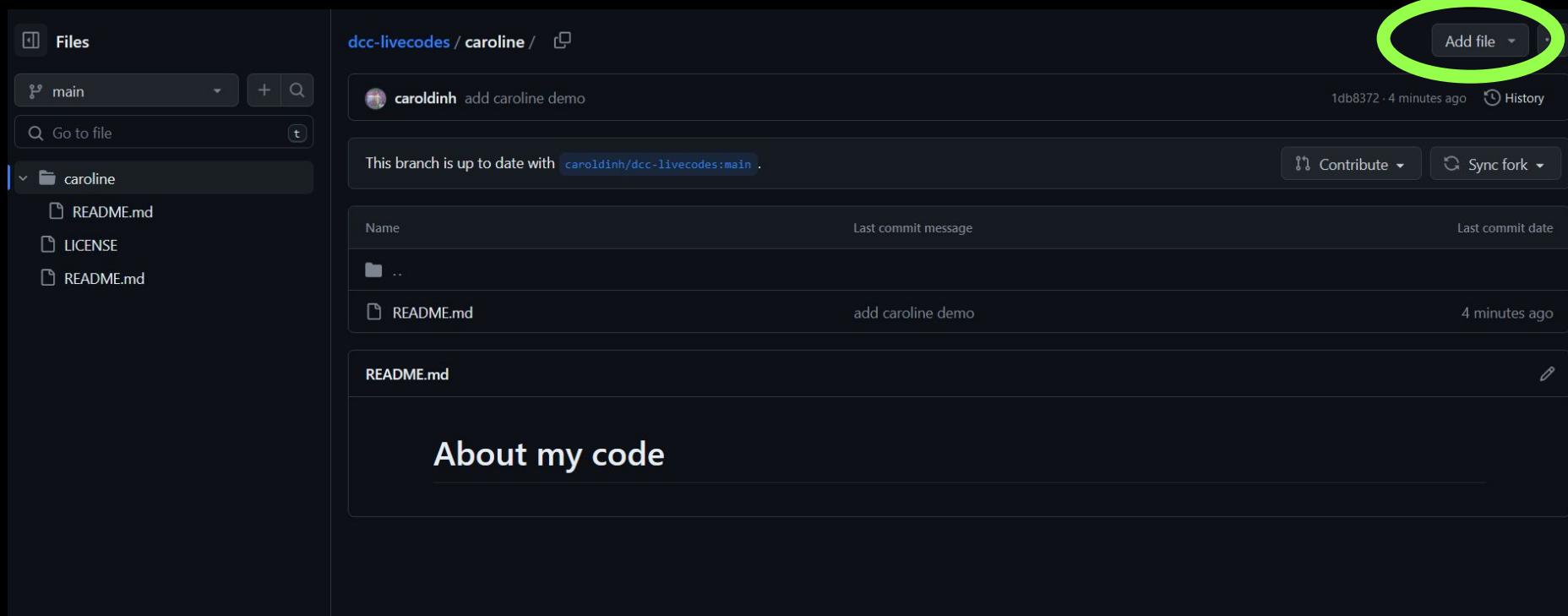
-o- Commit directly to the `main` branch.

↗ Create a **new branch** for this commit and start a pull request. [Learn more about pull requests.](#)

Commit changes

Cancel

3. Add file IN YOUR FOLDER



The screenshot shows a GitHub repository interface for the branch 'caroline'. The left sidebar displays files: 'main' (marked with a star), '+', 'Go to file', and a folder named 'caroline' which contains 'README.md', 'LICENSE', and another 'README.md'. The main area shows a commit from 'caroldinh' with the message 'add caroline demo'. A status bar indicates the branch is up-to-date with 'caroldinh/dcc-livecodes:main'. Below the commit, there's a table of files with columns for Name, Last commit message, and Last commit date. The 'README.md' file has a commit message 'add caroline demo' and was committed 4 minutes ago. A large green oval highlights the 'Add file' button in the top right corner of the main area.

Files

main + Go to file caroline

README.md LICENSE README.md

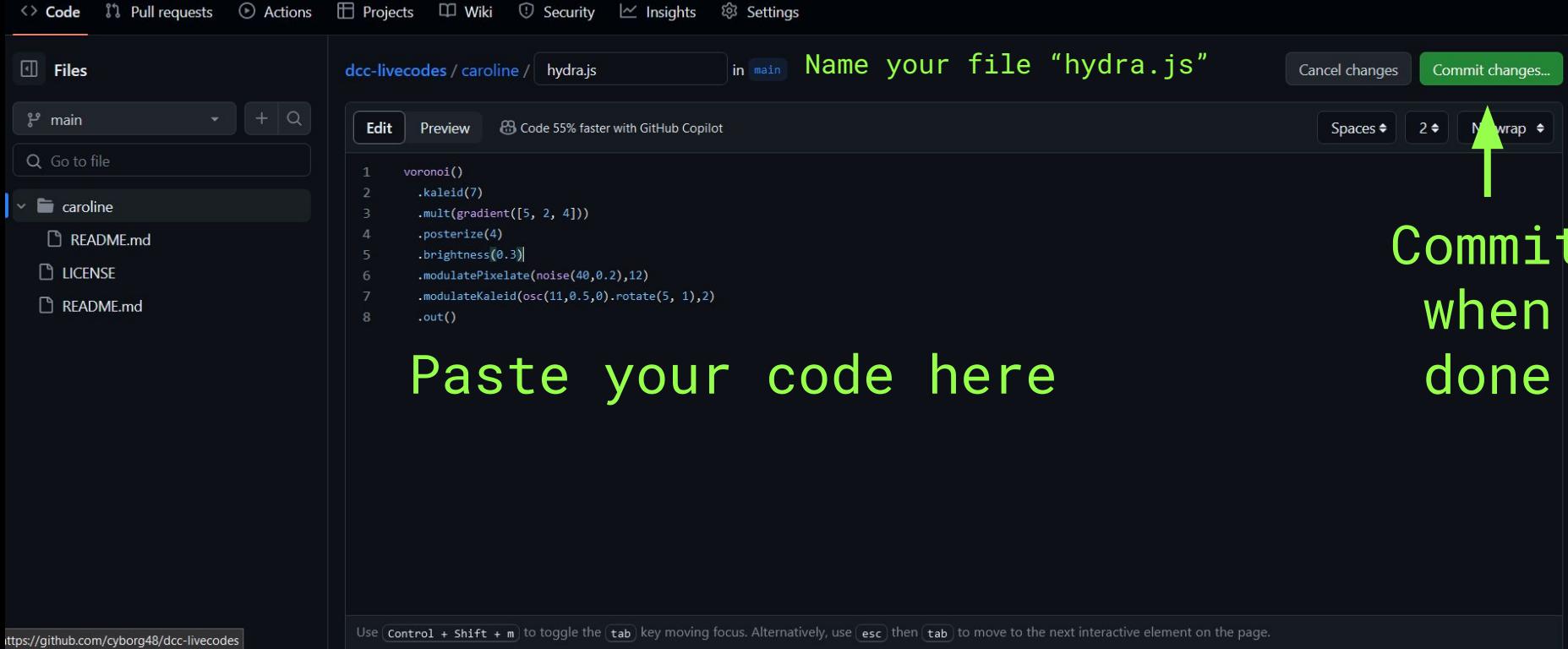
caroldinh add caroline demo 1db8372 · 4 minutes ago History

This branch is up to date with caroldinh/dcc-livecodes:main .

Name	Last commit message	Last commit date
..		
README.md	add caroline demo	4 minutes ago
README.md		

About my code

4. Edit your file



A screenshot of the GitHub Code editor interface. The left sidebar shows a project structure with files like README.md, LICENSE, and a folder named 'caroline'. The main editor area shows a file named 'hydra.js' containing the following code:

```
1 voronoi()
2   .kaleid(7)
3   .mult(gradient([5, 2, 4]))
4   .posterize(4)
5   .brightness(0.3)
6   .modulatePixelate(noise(40,0.2),12)
7   .modulateKaleid(osc(11,0.5,0).rotate(5, 1),2)
8   .out()
```

The top bar includes navigation links for Code, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The title bar shows the repository path 'dcc-livecodes / caroline / hydra.js' and the branch 'main'. A message 'Name your file "hydra.js"' is displayed above the editor. The bottom right corner of the editor has three buttons: 'Cancel changes', 'Commit changes...', and 'Commit changes...'. A green arrow points to the 'Commit changes...' button. The text 'Commit when done' is overlaid on the right side of the image.

Paste your code here

Commit when done

Use **Control + Shift + m** to toggle the **tab** key moving focus. Alternatively, use **esc** then **tab** to move to the next interactive element on the page.

<https://github.com/cyborg48/dcc-livecodes>

5. Commit changes

The screenshot shows a GitHub repository interface for the project 'dcc-livecodes / caroline/'. The left sidebar displays files like 'main', 'README.md', 'LICENSE', and 'README.rmd'. A modal window titled 'Commit changes' is open, prompting for a commit message. The message 'Create hydra.js' is entered. Below the message is an 'Extended description' field with the placeholder 'Add an optional extended description..'. At the bottom of the modal, two radio button options are shown: 'Commit directly to the main branch' (selected) and 'Create a new branch for this commit and start a pull request'. A green oval highlights the 'Commit changes' button at the bottom right of the modal.

cyborg48 / dcc-livecodes

Code Pull requests Actions Projects Wiki Security Insights Settings

Files

main README.md LICENSE README.rmd

caroline

Commit changes

Commit message

Create hydra.js

Extended description

Add an optional extended description..

Commit directly to the `main` branch

Create a new branch for this commit and start a pull request
Learn more about pull requests

Cancel Commit changes

Type ⌘ to search

Spaces 2 No wrap

Use `Control + Shift + m` to toggle the `tab` key moving focus. Alternatively, use `esc` then `tab` to move to the next interactive element on the page.

6. Edit your README

The screenshot shows a GitHub repository interface. On the left, there's a sidebar titled "Files" with a tree view of files: "main" (selected), "caroline" (expanded), "README.md", "hydra.js", "LICENSE", and another "README.md". The main area shows a commit from "cyborg48" titled "Create hydra.js". A message at the top says "This branch is 1 commit ahead of caroldinh/dcc-livecodes:main". Below the commit list is a table showing file details. A green circle highlights the edit icon next to the "README.md" row. At the bottom, the text "About my code" is visible.

Name	Last commit message	Last commit date
..		
README.md	add caroline demo	25 minutes ago
hydra.js	Create hydra.js	now

About my code

A screenshot of the GitHub code editor interface. On the left, there's a sidebar with a 'Files' section showing a tree view of files: 'main' (selected), 'caroline' (expanded), 'README.md' (selected), 'hydra.js', 'LICENSE', and another 'README.md'. The main area shows a file named 'README.md' with the following content:

```
1  # Nebulous Code
2
3  I made this piece to demonstrate Hydra for the workshop. I created it by referencing the documents and throwing together some functions I thought would look cool together.
   It ends up looking very spacey. I call it "Nebulous."
```

The top navigation bar includes tabs for 'Edit' (which is circled in green) and 'Preview', along with a GitHub Copilot integration button. To the right of the preview area are buttons for 'Cancel changes', 'Commit changes...', 'Spaces' (dropdown), '2' (dropdown), and 'Soft wrap' (dropdown). A large green arrow points upwards from the bottom right towards the 'Commit changes...' button. At the bottom of the editor, there are instructions for keyboard navigation and a note about attaching files.

Commit
when
done

cyborg48 / dcc-livecodes

Code Pull requests Actions Projects Wiki Security Insights Settings

Files

main + Q Go to file t

caroline README.md hydra.js LICENSE README.md

dcc-livecodes / caroline / Edit Preview Co

Commit changes

Commit message

Update README.md

Extended description

Add an optional extended description..

ts and throwing together some functions I thought would look cool together.

Commit directly to the main branch

Create a new branch for this commit and start a pull request

Learn more about pull requests

Cancel Commit changes

Use `Control + Shift + m` to toggle the `tab` key moving focus. Alternatively, use `esc` then `tab` to move to the next interactive element on the page.

Attach files by dragging & dropping, selecting or pasting them.

Cancel changes Commit changes...

Spaces 2 Soft wrap

Files

main

Go to file

caroline

README.md

hydra.js

LICENSE

README.md

dcc-livecodes / caroline / README.md

cyborg48 Update README.md 732d5e7 · now History

Preview Code Blame 3 lines (2 loc) · 243 Bytes Code 55% faster with GitHub Copilot

Raw ⌂ ⌄ ⌅ ⌆

About my code

I made this piece to demonstrate Hydra for the workshop. I created it by referencing the documents and throwing together some functions I thought would look cool together. It ends up looking very spacey. I call it "Nebulous."

PULL
REQUESTS

Filters ▾

is:pr is:open

Labels 9

Milestones 0

New pull request



Welcome to pull requests!

Pull requests help you collaborate on code with other people. As pull requests are created, they'll appear here in a searchable and filterable list. To get started, you should [create a pull request](#).

💡 **ProTip!** Type `g` or `i` on any issue or pull request to go back to the issue listing page.



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Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base repository: caroldinh/dcc-livecodes · base: main · head repository: cyborg48/dcc-livecodes · compare: main · ✓ Able to merge. These branches can be automatically merged.

Discuss and review the changes in this comparison with others. [Learn about pull requests](#)

Create pull request

3 commits · 2 files changed · 1 contributor

Commits on Aug 31, 2023

- Create hydra.js · Verified · c372fc6 · cyborg48 committed 20 minutes ago
- Update README.md · Verified · 732d5e7 · cyborg48 committed 14 minutes ago
- Merge branch 'caroldinh:main' into main · Verified · a1455ae · cyborg48 committed 1 minute ago

Showing 2 changed files with 11 additions and 1 deletion.

Split Unified

caroline/README.md

```
@@ -1 +1,3 @@
- # About my code
+ # About my code
+
+ I made this piece to demonstrate Hydra for the workshop. I created it by referencing the documents and throwing together some functions I thought would look cool together. It ends up looking very spacey. I call it "Nebulous."
```

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).



base repository: caroldinh/dcc-livecodes

base: main



head repository: cyborg48/dcc-livecodes

compare: main

✓ Able to merge. These branches can be automatically merged.

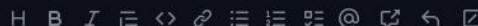


Add Caroline's code

Title your pull request

Write

Preview



What I Did

I added my README and Hydra code example to the community portfolio.

Congratulations, you have successfully started your pull request! 😊😊

Add a note about what you did

Please make sure that your BASE repository is caroldinh/dcc-livecodes and your HEAD repository is **YOUR USERNAME**/dcc-livecodes, as with below:

![image](https://github.com/caroldinh/dcc-livecodes/assets/55922985/7ad17078-0f1f-452a-8504-1d562c1ad4c5)

And that you have:

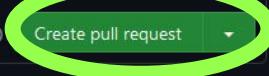
- [] Created a README.md file in your folder, and
- [] Uploaded your Hydra code into your folder

After that, make sure to write a brief message describing your changes underneath the heading "What I Did." When you're ready, hit "Create pull request" and wait for your code to be reviewed!

Attach files by dragging & dropping, selecting or pasting them.

Allow edits by maintainers

Create pull request



at caroldinh/dcc-livecodes:

caroldinh / dcc-livecodes

Code Issues Pull requests 1 Actions Projects Security Insights

Filters is:pr is:open Labels 9 Milestones 0 New pull request

1 Open 0 Closed Author Label Projects Milestones Reviews Assignee Sort

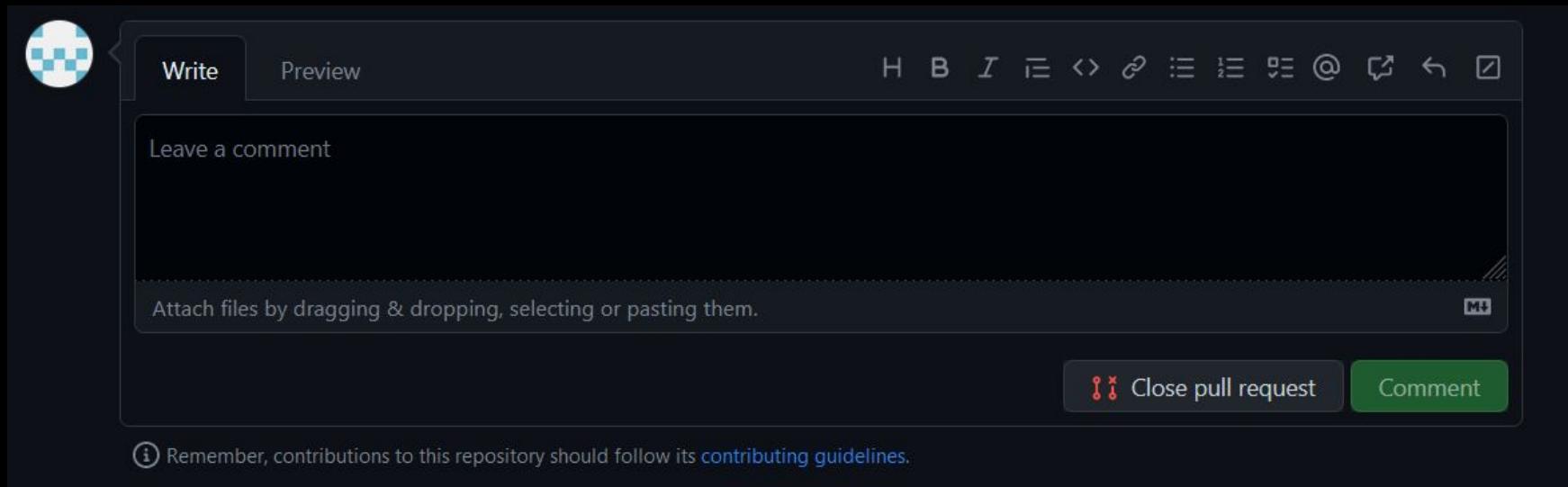
Add Caroline's code #1 opened 3 minutes ago by cyborg48 2 tasks

ProTip! Exclude your own issues with -author:cyborg48.

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**CODE
REVIEWS**



Reviewing your peers' PRs

Submit questions, comments, things you learned from their code, or let them know if something isn't working

MERGING !



Require approval from specific reviewers before merging

Branch protection rules ensure specific people approve pull requests before they're merged.

[Add rule](#)

This branch has no conflicts with the base branch

Merging can be performed automatically.

[Merge pull request](#)

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).



✓ Create a merge commit

All commits from this branch will be added to the base branch via a merge commit.

Squash and merge

The 3 commits from this branch will be combined into one commit in the base branch.

Rebase and merge

The 3 commits from this branch will be rebased and added to the base branch.

H B I E < > ⌂ ⌃ ⌁ ⌅ ⌄ ⌆ @ ↻ ↺ ↻

ing them.

[Close pull request](#)[Comment](#)

More open source. . .



Explore **Topics** Trending Collections Events GitHub Sponsors

good-first-issue

Star

Here are 1,252 public repositories matching this topic...

Language: All ▾ Sort: Most stars ▾

awesome Public

Sponsor Watch 7.5k Fork 26.4k Star 267k

main 2 branches 0 tags Go to file Add file ▾ Code ▾

sindresorhus Meta tweaks 7a3c995 on Jul 27 1,103 commits

.github Remove macOS Command Line (#2051) 2 years ago

media #StandWithUkraine last year

.editorconfig add .editorconfig 7 years ago

.gitattributes Prevent the lint script from affecting repo language stats 2 years ago

awesome.md Fix a link 2 years ago

code-of-conduct.md Use HTTPS links 3 years ago

About

Lists awesome unicorns resources awesome-list

Readme CC0-1.0 license Code of conduct Activity 267k stars 7.5k watching

This screenshot shows a GitHub search results page for the topic "#good-first-issue". The results list 1,252 repositories. The first repository shown is "awesome" by sindresorhus, which is a public repository with 2 branches, 0 tags, and 1,103 commits. The repository description includes a link to "#StandWithUkraine". The "About" section on the right provides links to other GitHub lists like "awesome", "unicorns", and "resources", along with details about the repository's license (CC0-1.0 license) and code of conduct.

GitHub Student Pack

The screenshot displays the GitHub Student Pack landing page with nine experience bundles:

- Primer: Copilot** (Recently Added)
Whether you're approaching graduation or just want to get a head start, it's never too early to prepare for your future in the industry.
- Career Readiness** (Recently Added)
Everything you need to build your next website. Learn how to design and build your own website as you learn the basics of web development.
- Intro to Web Dev**
Offers in this bundle:
 - Bootstrap Studio
 - DigitalOcean
 - Microsoft Azure
 - Educative
- Hackathon in the Cloud**
Learn how to organize, promote, and communicate your next codefest or hackday. Whether you're hosting your first or you're a pro, the Hackathon in the Cloud Experience gives students the tools to help empower student hacker communities.
- Aspiring Creatives**
Working on a creative project? Develop your design and collaboration skills to get your clever intentions off the ground. Unleash your originality and start to tinker with the Aspiring Creatives Experience.
- Data Science & Machine Learning**
Refine your skills in data collection, cleaning, analysis, visualization, programming, and machine learning. The Data Science & Machine Learning experience gives you the tools to analyze, collaborate and harness the power of predictive data to build amazing projects.
- Mobile App Development**
Have an idea for a mobile app you'd like to bring to life? This Mobile App Development Experience gives you the tools, resources and inspiration to design,
- Developer Operations**
Developer Operations (DevOps) is the symbiotic relationship between teams, culture and development that allows for collaboration, growth and continuous
- Virtual Event Kit**
Everything you need for your virtual event. Design for engagement and we'll take care of the tools. The Virtual Event Kit gives student the resources to make

Free access to software,
cloud/IT resources,
career readiness
resources, online
courses, & more!

SIGN UP:
<https://education.github.com/pack>

THANK
YOU!!

CDINH@TERPMAIL.UMD.EDU