An Introduction to GitHub and why it may be useful for your organization.

https://github.com/Sitka-Sound-Science-Center

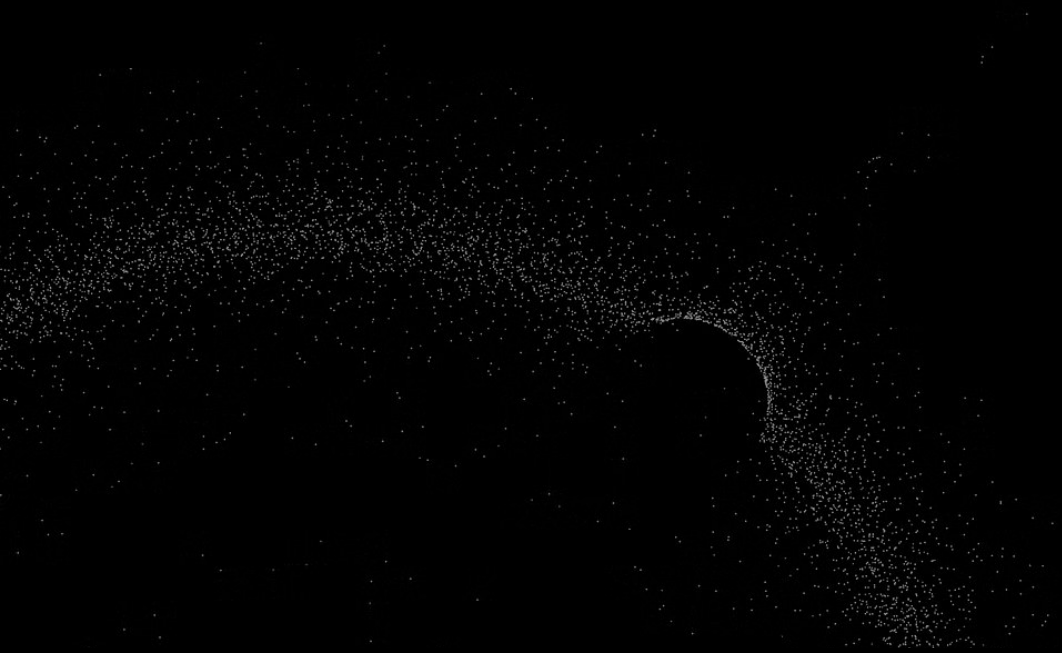
Goals

1. Definitions and Background
2. Creating GitHub accounts
3. GitHub for research
4. Explore the SSSC GitHub
5. How to learn more about the tool
6. Utilizing GitHub in your role

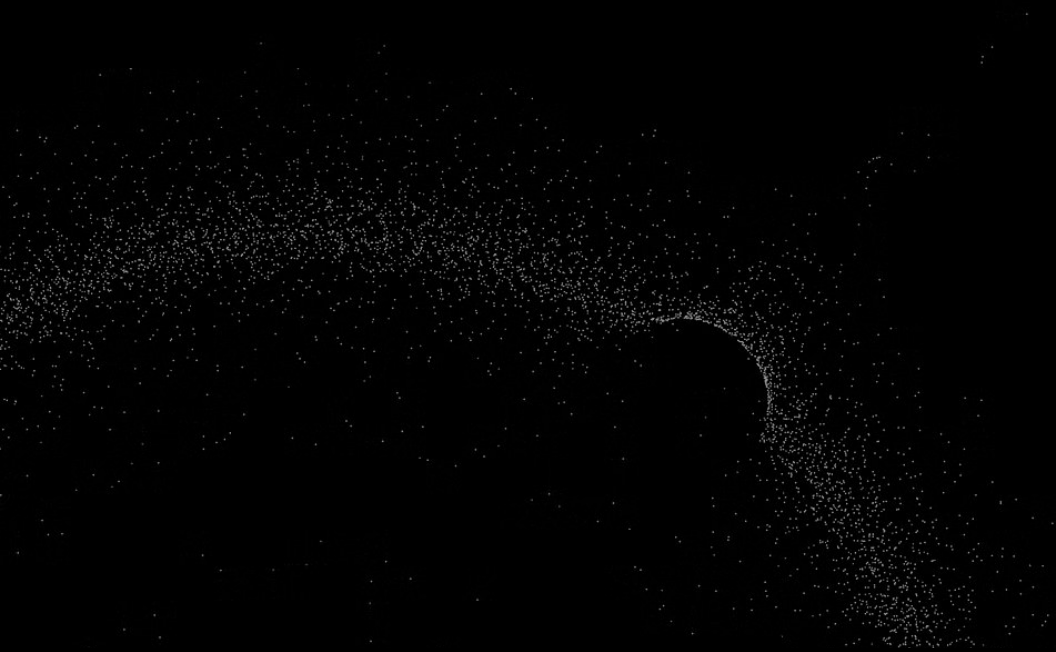
Goals

1 Definitions and Background

Before we define what GitHub is.....
Who has heard of GitHub before?



Before we define what GitHub is.....
Who has used GitHub before and in what capacity?



What is GitHub?

A location to create, store, change, merge, and collaborate on files or code.

A powerful tool for project management.

A version control software for developers.

Basic GitHub accounts and organizations are free!

What does GitHub allow us to do?

- Share information about our research projects with the public
- Store internal research project information *incredibly* securely
- Document field logs
- Manage teams
- Collaborate with individuals outside of our organization
- Maintain detailed records of changes - Version Control (Git Commands)

Who is using GitHub?

- Government Agencies
- Educational Institutions
- Scientific Organizations
- Tech Companies

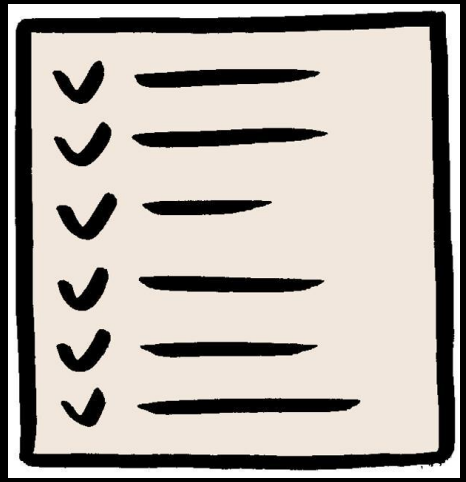
Google

NASA

Microsoft

Spotify

500+ agencies across the world at national, state and local levels, make use of GitHub's tools



Repositories (Repos):

A directory to store files with a version history

Projects:

A tool for organizing and prioritizing work

What is Version Control?

A way to document previous iterations of work to resolve errors and fix mistakes to keep team members updated on work.

GitHub is a distributed version control system - each person has a complete copy of a project's history using "Git Commands"

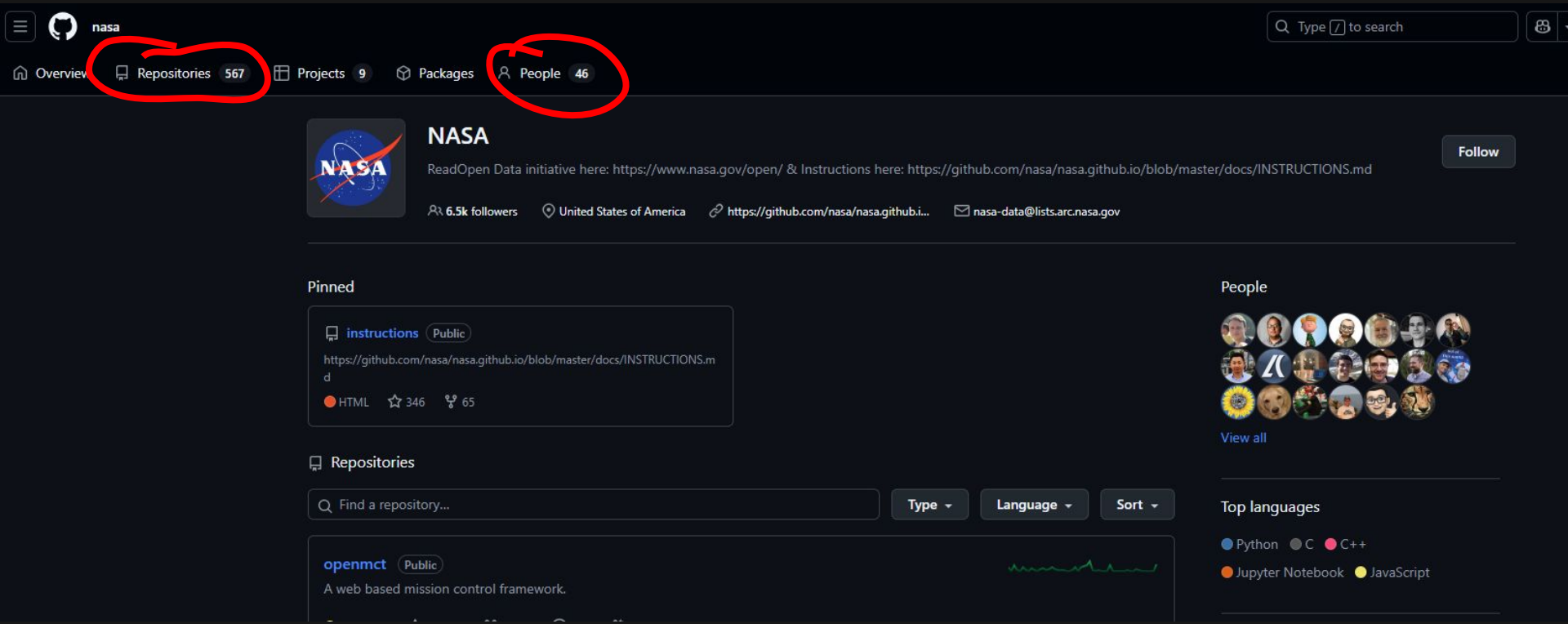
Other distributed version control systems include GitLab (not as popular)

Goals

1 Definitions

2 Creating GitHub accounts

Organization GitHub Accounts



Sitka Sound Science Center

github.com/Sitka-Sound-Science-Center

Error

Sitka-Sound-Science-Center

Type / to search

Overview | Repositories 21 | Projects 2 | Packages | Teams 2 | People 10 | Insights | Settings

Sitka Sound Science Center

Dedicated to increasing awareness and understanding of aquatic, marine and terrestrial ecosystems of coastal Alaska through education and research.

Follow

5 followers | https://sitkascience.org/research/ | sitkascience | SitkaScience | https://x.com/i/flow/login?redirect_aft... | https://vimeo.com/sitkascience

We think you're gonna like it here.

We've suggested some tasks here in your organization's overview to help you get started.

Invite your people

Invite your first member
Find people by their GitHub username or email address.

Customize members' permissions
Set everyone's base permissions for your code.

Collaborative coding

See more about collaborative coding →

Create a pull request
Propose and collaborate on changes to a repository.

Create a branch protection rule
Enforce certain workflows for one or more branches.

View as: Public

You are viewing the README and pinned repositories as a public user.

You can create a README file or pin repositories visible to anyone.

You can hide the tasks we've suggested on this page and bring them back later.

Discussions

Set up discussions to engage with your community!

Turn on discussions

Repositories

sitka-landslide
JavaScript ☆0 Updated 5 days ago

geoscience_sitka_onset_weather_monitoring_network
☆0 Updated 2 weeks ago

internal_www_sssc_marine_debris_database

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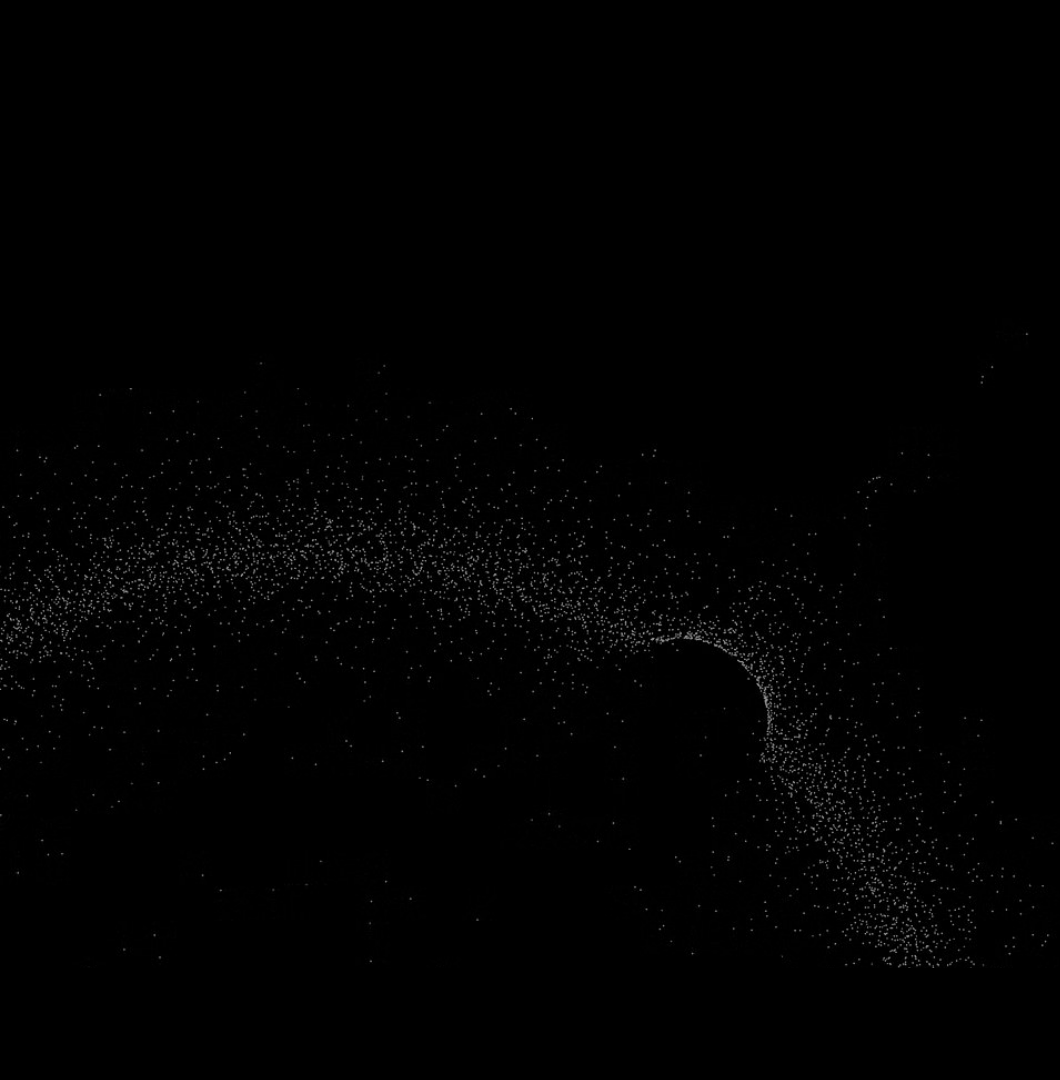

GitHub is used for research primarily to manage and share code, data, and other research materials in a collaborative and reproducible manner.

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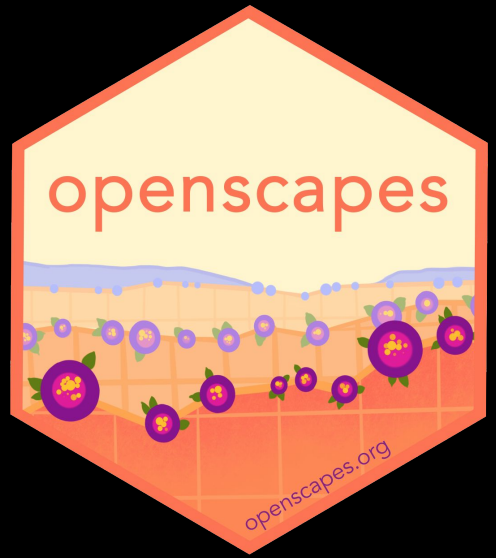
Let's each navigate to the research_data_statement repo



https://github.com/Sitka-Sound-Science-Center

Let's each navigate to the wwu_salmon_computer_game repo

https://github.com/Sitka-Sound-Science-Center

Let's each navigate to the sitka-landslide repo

https://github.com/Sitka-Sound-Science-Center

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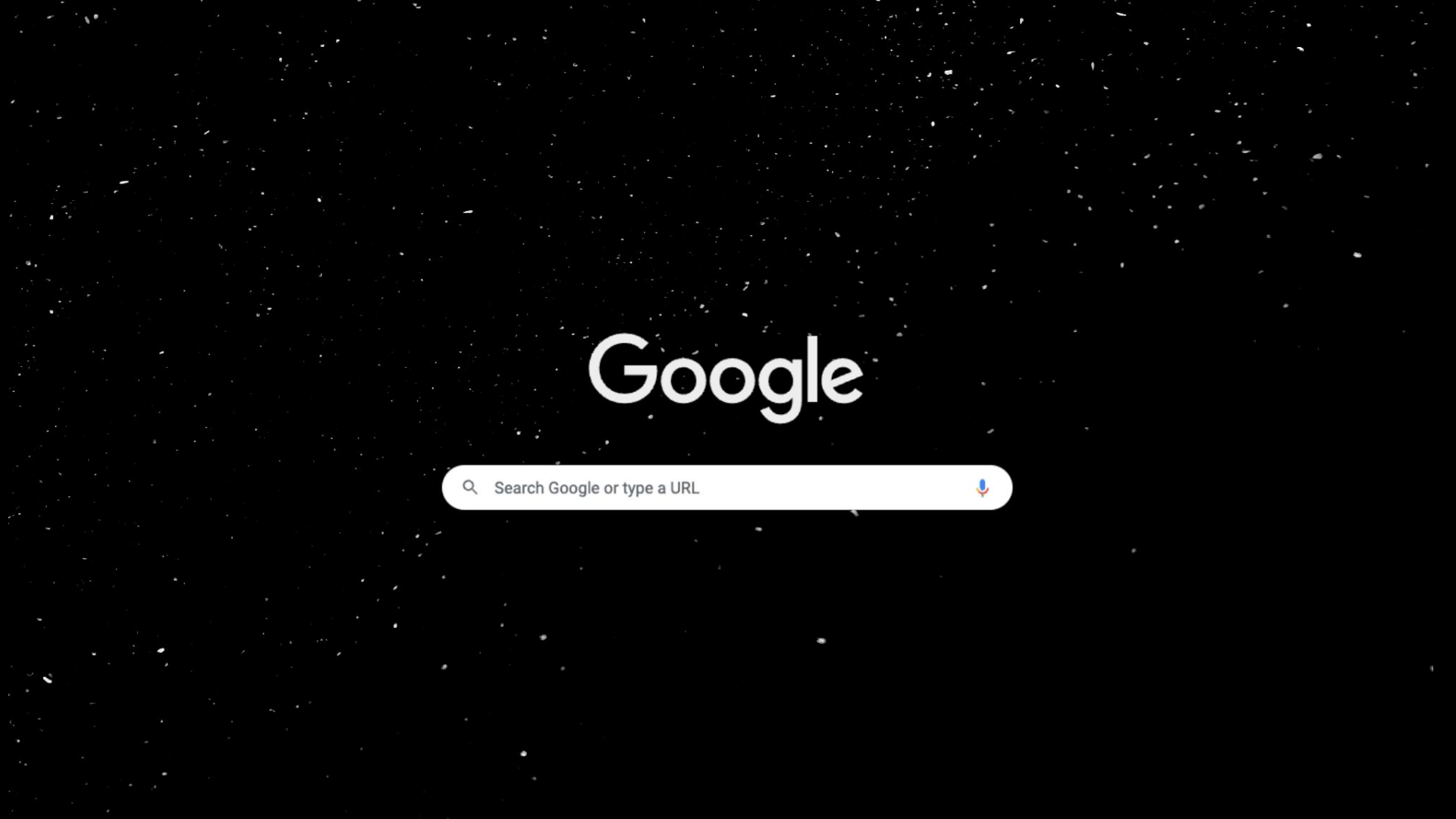
Google
Search Google or type a URL

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How could GitHub be useful in your role?

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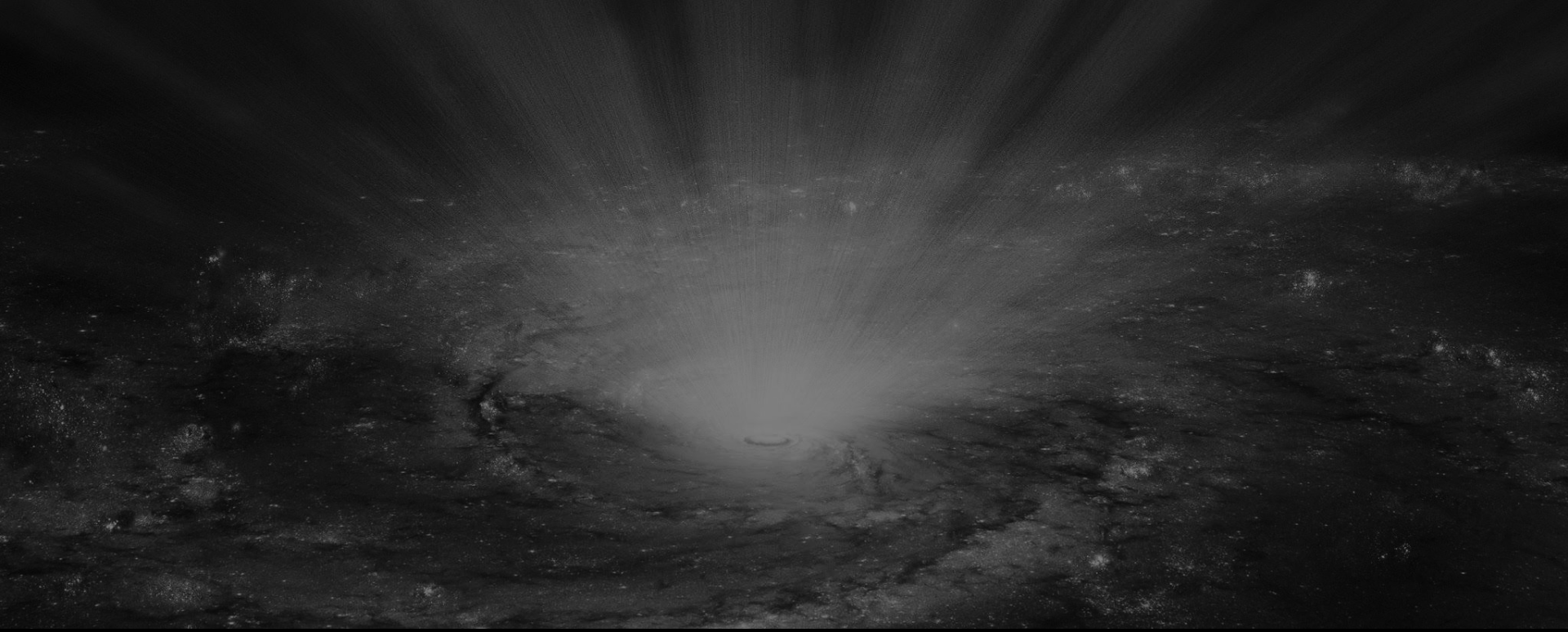

Thank you!

More Terms:

Fork - copying repositories

Pull - A request to make changes to a repository through a "Pull Request"

Merge - A way to contribute to other repositories

So, you want to make a cheep website?

A workshop for my buddies.

Learning Together

- Domain 101
- Github/VS Code
- Templates
- Put ‘em together

Computer Science 101

- Look stuff up; the answer will be there
- Things sometimes look scary, but you will survive
- The force is with you

https://sites.google.com/view/ellaearrings/home

Website = Domain + Web Pages

yourname.github.io -> ellaneumann.github.io

Foundational things to discuss

- What is code?

  Code refers to the statements written in a programming language, processed by a compiler to run on a computer.

Someone who writes code:
a computer scientist, coder,
software developer,
software engineer....

Not all coders drink these drinks. Some do.

Before Feb 5th ->

Create a GitHub account online with your email

Download GitHub desktop onto your laptop

Download Visual Studio Code onto your laptop

Let me know if you need support with these steps. Looking forward to the workshop!

Foundational things to discuss

- What is HTML?

  Coding language that builds “bones” of website
- What is CSS?

  Coding language that makes website pretty
- What is GitHub?

  a web-based platform that allows developers to store, manage, and share code
- What is an Integrated Development Environment (IDE)?

  Where you can write code. Like paper to write on.

Website Creation Workshop

Step 1: Create a GitHub Account

Go to GitHub and sign up for an account.

Verify your email address.

Step 2: Download an HTML5 UP Template

Visit HTML5 UP.

Choose a template you like and click "Download".

Extract the downloaded .zip file on your computer.

Step 3: Create a New GitHub Repository

Log in to GitHub and click the **+** icon (top right), then select **New repository**