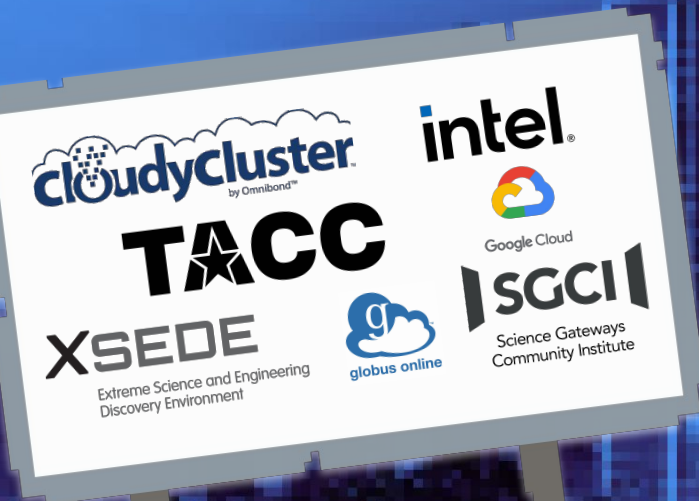


SC22  
3rd Annual Hackathon!  
**HPC IN THE  
CITY: DALLAS**  
NOVEMBER 3-7, 2022



# GitHub and Discord Overview



# Agenda

**01** Hackathon  
Objectives and  
Student Outcomes

**03** Deliverables and  
Resources

**02** Sample Project  
Timeline

**04** GitHub and Discord  
Overview



Join our Discord Server  
<https://discord.gg/ARq3vwWafF>

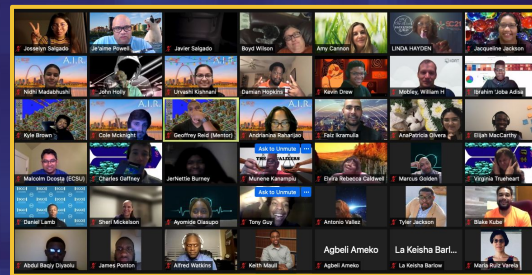


# The Objective of HPC in the City

The hackathon aims to harness the resources, skills, and knowledge found in the HPC community in an effort to provide applied exposure towards students from 2-4 year post-secondary educational institutions. In short, the hackathon will provide HPC skills and training while targeting problems that directly affect the participants. Develop knowledge about solutions to identified issues affecting Dallas through application of data analysis/presentation or management.

## Student Outcomes

- Increased familiarity with data science in the cloud
- Experience collaborative software engineering
- Develop professional communication skills





# Example Project Timeline

- Select a project
  - identify Milestones (Major/Minor)
  - identify possible logistical issues
- Deliver a project proposal presentation
- Regular check-ins
- Final presentation with deliverables:
  - Repo with code and data
  - Demonstration
  - Presentation
- Metrics for selecting a “winner”
  - Project Impact
  - Viability / Usefulness
  - The creativity of execution /Wow-effect
  - UX / Polish
  - Technical complexity
  - Collaboration
  - Presentation
  - Completeness

# Student Deliverables and Resources

## **Deliverables:**

- Source code Including Comments
- PDF of presentation
  - Team members with pictures
  - Use of HPC technology in the project
  - Project impact to the community
- Github Repository Link
  - README.md with project description

## **Resources:**

- Google Cloud (Provided Credits)
- Cloudy Cluster
- Most Commonly Used
  - Python
  - Jupyter Notebooks
  - Node.Js (JavaScript)
  - Repl.it (Collaborative Environment)
  - HTML
- Discord - <https://discord.gg/ARg3vwWafF>



# Communication Platforms



# Discord – Basics

## HackHPC Discord Server:

<https://discord.gg/ARq3vwWafF>

### Functions:

- Messages
  - Direct and Group
- Video Conference
  - Screen Share
- File Exchange



Join the  
HackHPC  
Discord using  
this QR Code!



# Discord Channels and Tips

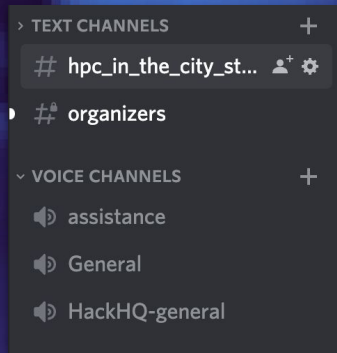
## Important Channels

1. #general
2. #assistance (voice channel)
3. HackHQ-general (voice channel)
4. Custom team channel

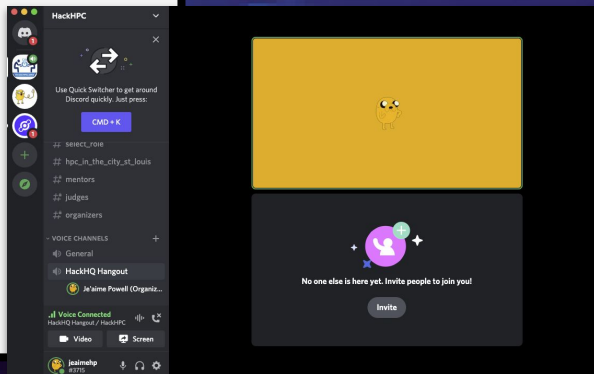
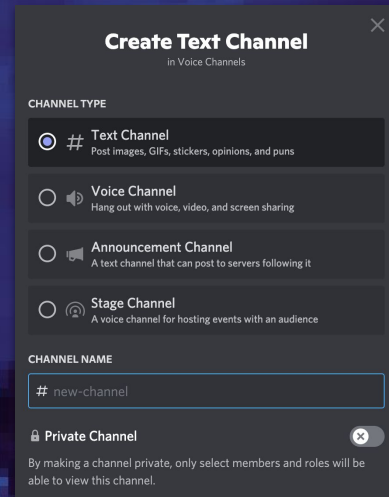
## Tips

1. Browse for a channel
2. Create Group
3. Conference

1.



2.



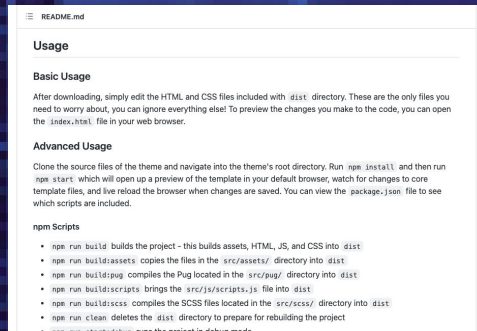
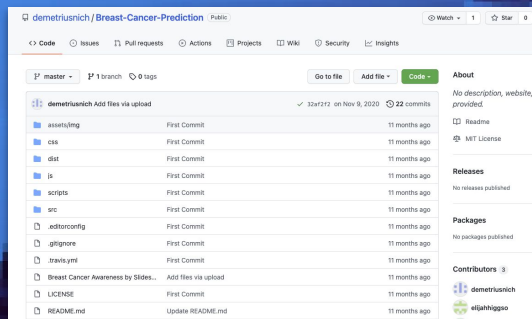


# GitHub (Web) - Basics



Note: A GitHub repository will be required of all teams when reporting out during final presentations. (Examples <http://hackhpc.org/pasthacks/>)

[HINT] [GitHub Pages](#) is a powerful, free feature!



## Breast-Cancer-Prediction

### Breast Cancer Prediction Website

HEAD According to Georgia Department of Public Health and the Georgia Center for Cancer Statistics, breast cancer is the leading cause of cancer incidence in women citizens residing in Georgia. Breast cancer accounts for 30% of all new cancers found in women. Through prediction modelling, women can understand how risk factors play a part in prevention. Knowing these risks brings awareness and awareness brings about prevention

We created a website with prediction graphs showing the possible cases of breast cancer for 2020, and compared it to prior years.

This site was created to spread awareness for breast cancer in Atlanta.

You can see what work was done on Google Colab <https://colab.research.google.com/drive/7N89pY4MSITOUUvqSta7wQ1yUzyV-i7usps?sharing>

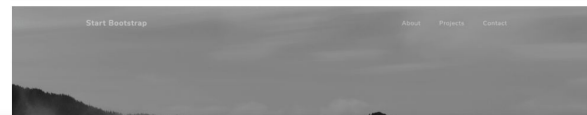
This project was created by Demetrius Nicholson, Rayna Wynn, Elijah Higgs, Javier Guillen, and Tony Guy.

Data for this study was obtained from the BCSC: <http://bcsc-research.org/>.

### Start Bootstrap - Grayscale

Grayscale is a multipurpose, one page HTML theme for Bootstrap created by Start Bootstrap.

#### Preview



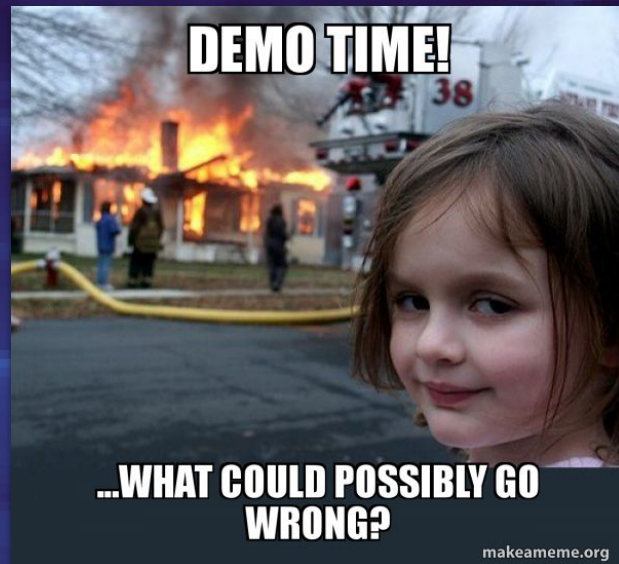
<https://hackhpc.github.io/HPCintheCity22>

# Repository Creation and README.md

**Demo Time!!**

**Example GitHub Repo:**

<https://github.com/jeaimehp/Git-Intro>



# Questions and Concerns

Next Sessions:

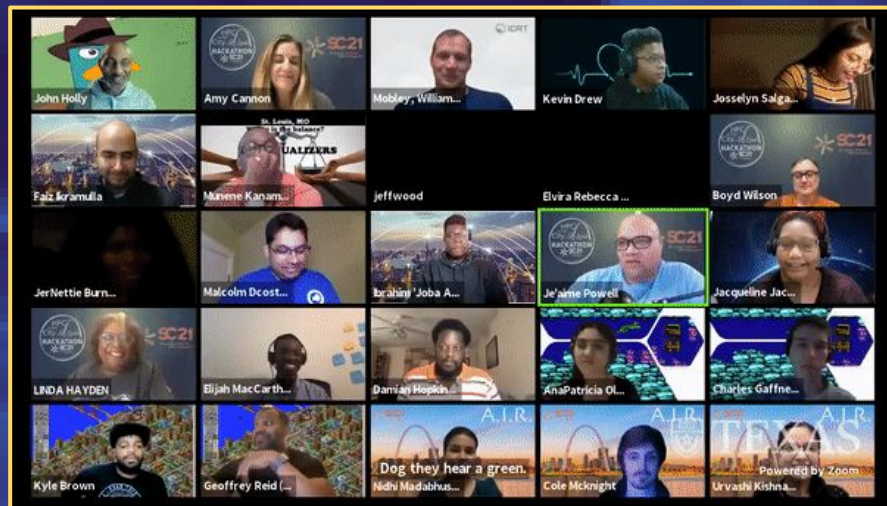
- Kick-Off [11/3/22]

Schedule:

<https://hackhpc.github.io/HPCintheCity22/schedule>

Presenters **Contact Information:**

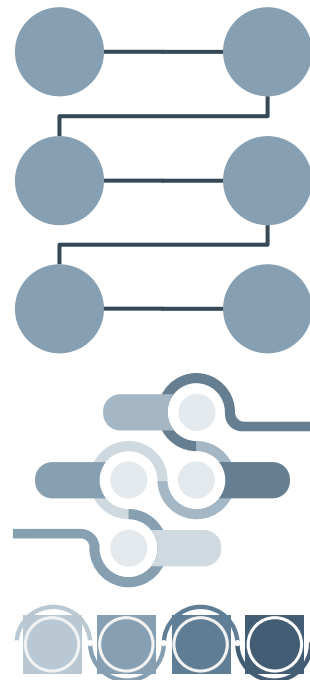
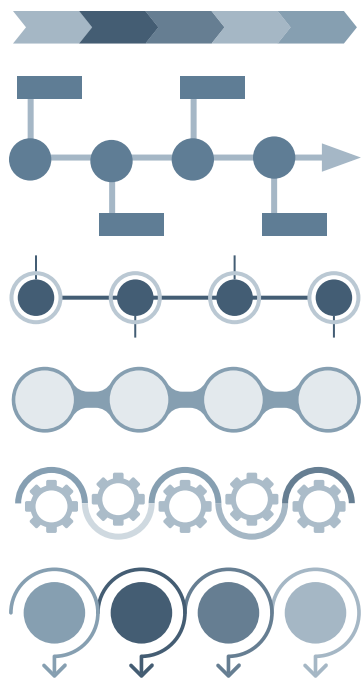
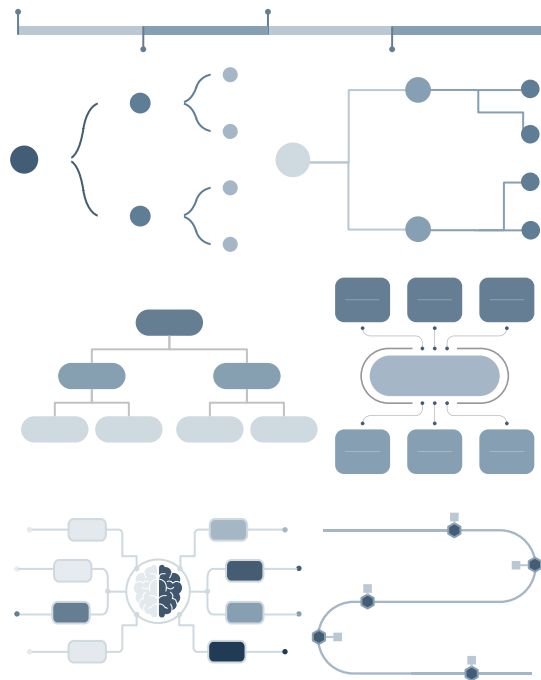
Je'aime Powell (TACC) - [jpowell@tacc.utexas.edu](mailto:jpowell@tacc.utexas.edu)

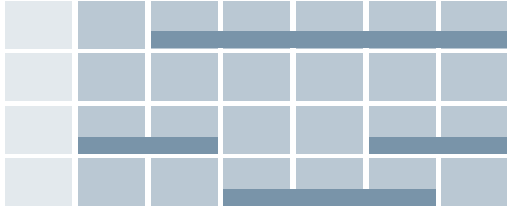


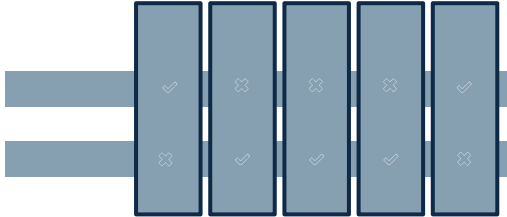
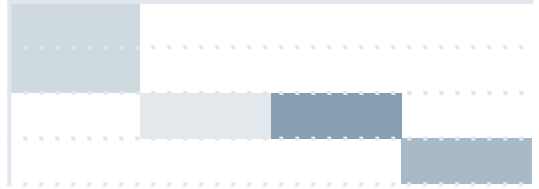
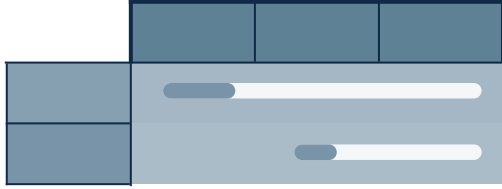
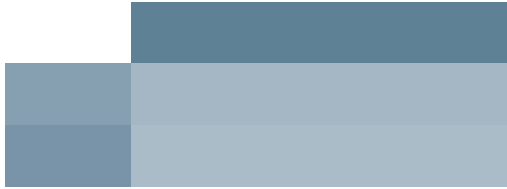


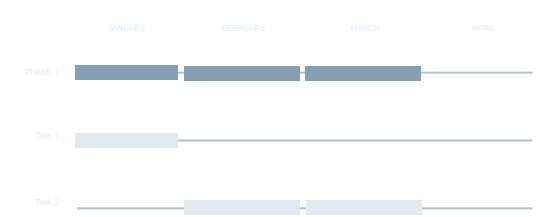


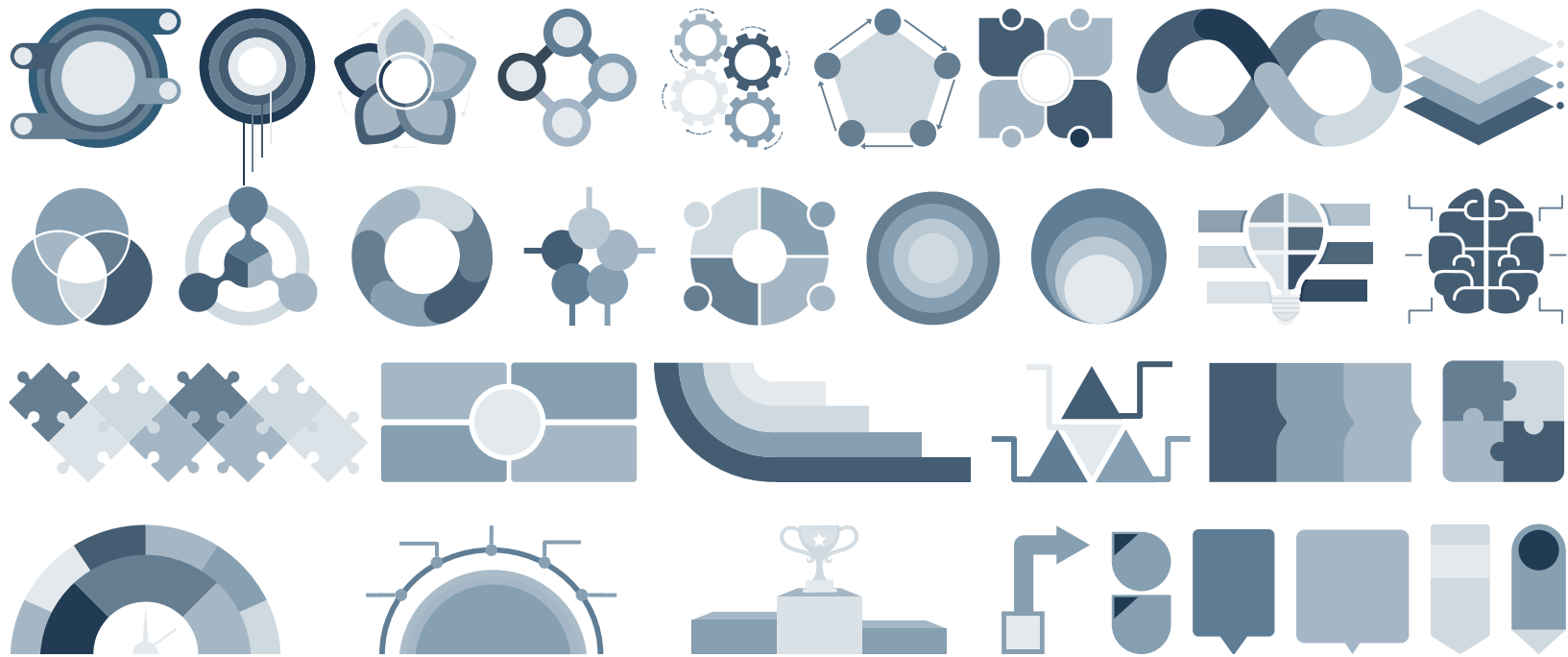


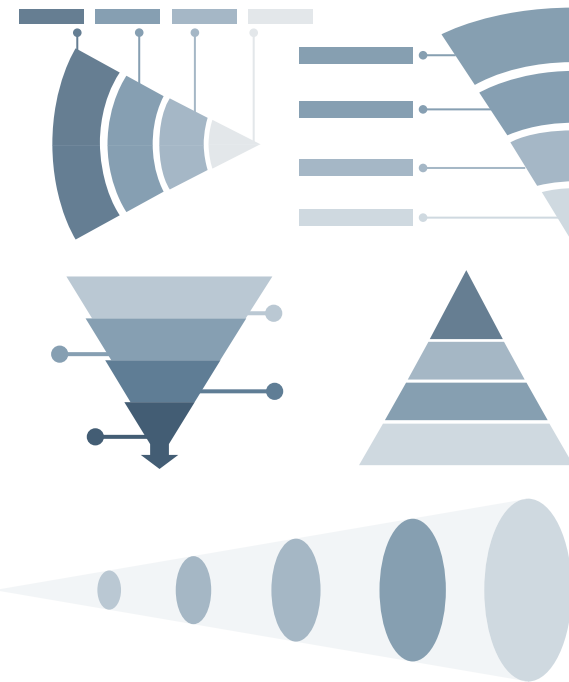
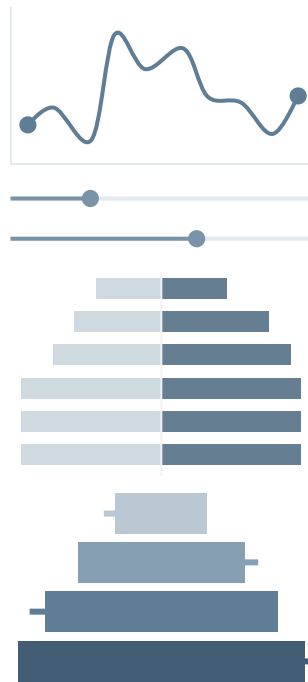










# ...and our sets of editable icons

You can resize these icons without losing quality.

You can change the stroke and fill color; just select the icon and click on the paint bucket/pen.

In Google Slides, you can also use Flaticon's extension, allowing you to customize and add even more icons.



## Educational Icons



## Medical Icons



## Business Icons



## Teamwork Icons



[illegible][illegible]





# Loans

[illegible]

# Nature Icons



# SEO & Marketing Icons



