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# HPC in the City: *St. Louis* HACKATHON



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## Discord and Github Training



Join the HPC in the  
City Discord using  
this QR Code!



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HPC  
in the  
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**Discord and Github  
Training**

# Agenda

- Introductions
- Hackathon Objective
- Deliverables and Resources
- General Information
- Discord Basics
- GitHub (Web) Basics



Presenter: Je'aime Powell

# Organizers



Alex Nolte - *University of Tartu*  
[alexander.nolte@ut.ee](mailto:alexander.nolte@ut.ee)



Boyd Wilson - *Omnibond*  
[boyd@omnibond.com](mailto:boyd@omnibond.com)



Amy Cannon - *Omnibond*  
[amycannon@omnibond.com](mailto:amycannon@omnibond.com)



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



Linda Hayden - *ECSU*  
[haydenl@mindspring.com](mailto:haydenl@mindspring.com)

# The Objective of HPC in the City: St. Louis

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 St. Louis 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

# Student Deliverables and Resources

## Deliverables:

- **Source code Including Comments**
- **PDF of presentation**
  - Team members with pictures
  - Use of HPC technology in the project
  - Regional (St. Louis) implications of the project
- **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.com/invite/rSXasYKDwE>



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# General Information (the 3 T's)

- **Teams**

- 4-5 Students
- 1 Primary Mentor
- 1 Specialist/Staff

- **Time**

- November 4th - 8th
  - 11/4@~6pm ET Event Start
    - Team formation
  - 11/[5-8] @ 11 ET & 6pm ET- Checkins
  - 11/8@6pm ET-Final Presentations

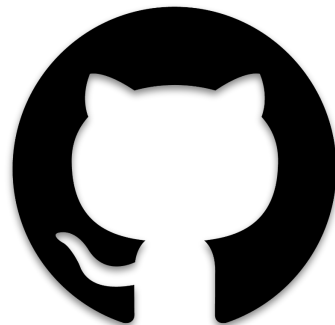
- **Topic Examples**

- Data Analysis of COVID 19
- Economic disparities and their effects on college participation
- Genomics, Molecular Dynamics, or Weather Modeling in the Cloud.
- Social Justice
- AI-based Crowd Status
- Public Data Management
- Graduation Rates
- Broadband Access
- Insurance vs. Public Health Resilience

# Communication Platforms



**Discord**



**GitHub**



# Discord - Basics



HackHPC Discord Server:

<https://discord.gg/auwynz9Y>

Functions:

- **Messages**
  - Direct and Group
- **Video Conference**
  - Group
  - Screen share
  - Meeting Rooms
- **File Exchange**



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# Discord Channels and Tips

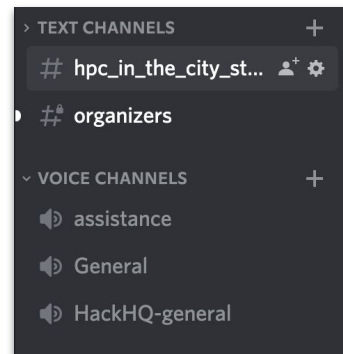
## Important Channels

- #hpc\_in\_the\_city\_st\_louis
- #assistance (voice channel)
- HackHQ-general (voice channel)
- Custom team channel

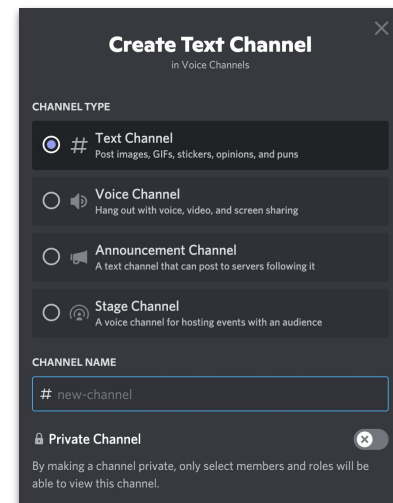
## Tips

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

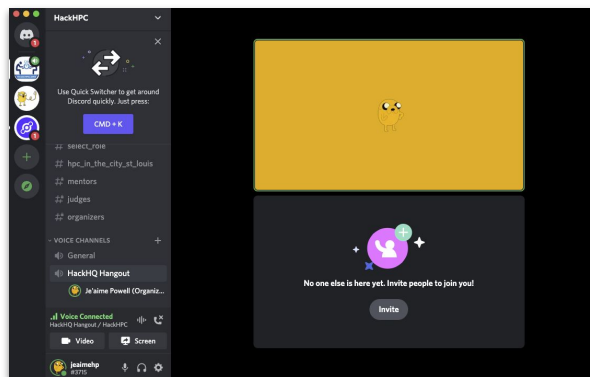
1.



2.



3.

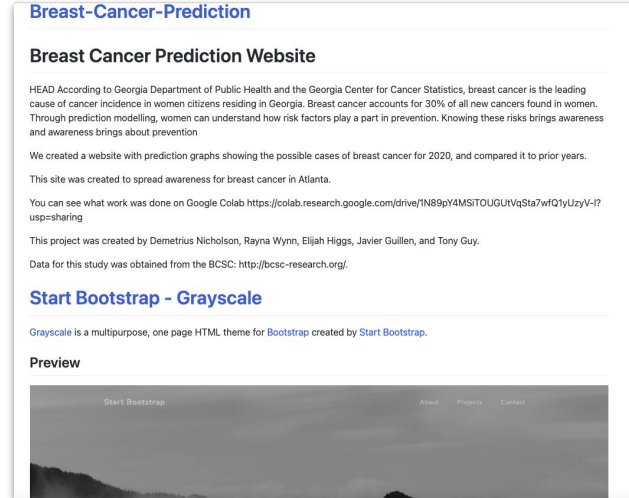
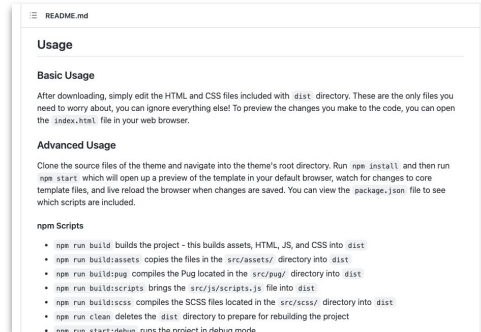
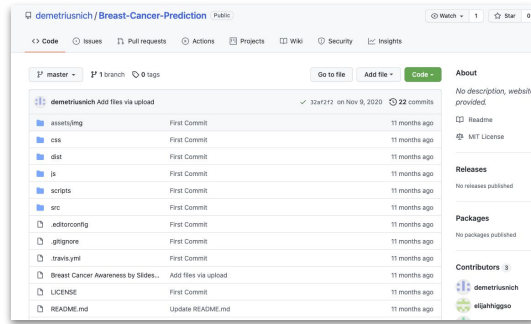




# GitHub (Web) - Basics

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!



# Repository Creation and README.md

## Demo Time!!



# Questions and Concerns

Next Training Sessions:

- **Google / CloudyCluster** - [10/14/21]

- **Data to Dashboard** - [10/21/21]

Schedule:

<https://jeaimehp.github.io/HackHPC-HPCintheCity21/>

Presenters Contact Information:

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

