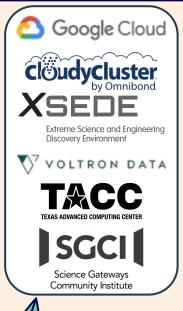


○ ○ ○ HackHPC@ADMI22 | Training Session







Join the HackHPC@ADMI22 Discord using this QR Code!

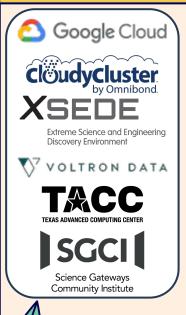
GitHub and Discord

















GitHub and Discord

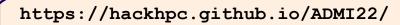




Agenda

- 1. Introductions
- 2. Hackathon Objective
- 3. Deliverables and Resources
- 4. General Information
- 5. Discord Basics
- 6. GitHub (Web) Basics







HackHPC@ADMI22 | Training Session

Organizers



Linda Hayden - ECSU/SGCI haydenl@mindspring.com



Boyd Wilson - Omnibond boyd@omnibond.com



Amy Cannon - Omnibond amycannon@omnibond.com



Je'aime Powell - TACC jpowell@tacc.utexas.edu



Alex Nolte - University of Tartu alexander.nolte@ut.ee



John Holly - XSEDE iholly@sura.org



The Objective of HackHPC@ADMI

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

OOO Deliverables:

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

OOO Resources:

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

General Information (the 3 T's)

Teams

- 4-5 Students
- 1 Primary Mentor
- 1 Technical Mentor

Time

- March 31st April 4th
 - 3/31 @~7pm ET Event Start
 - "The Draft"
 - 4/[1-4] @ 11am ET & 7pm ET- Checkins
 - 4/4@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 - Basics

HackHPC Discord Server:

https://discord.gg/ARg3vwWafF



Functions:

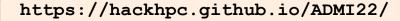
- Messages
 - Direct and Group
 - Video Conference
 - Screen Share
 - File Exchange



Join the HackHPC Discord using this QR Code!









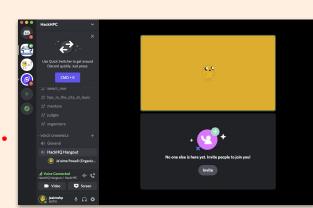
Discord Channels and Tips

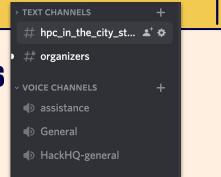
Important Channels

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

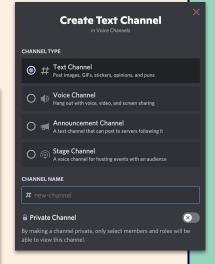
Tips

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





2.

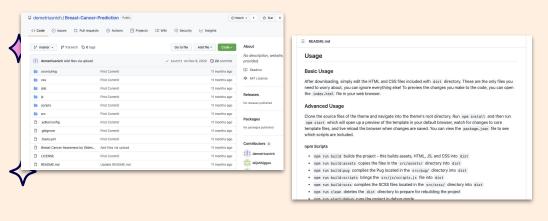


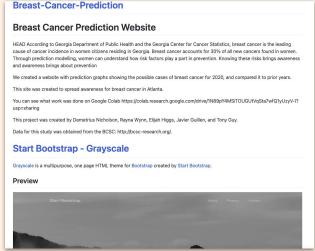
GitHub (Web) - Basics



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!





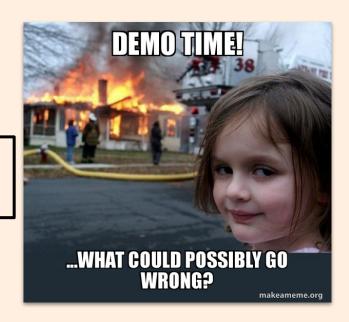


Repository Creation and README.md

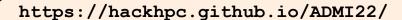
Demo Time!!



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







Questions and Concerns

Next Training Sessions:

- Hackathon Beginning to End - [6/25/22]

- Data to Dashboard - [6/26/22]

- Google / CloudyCluster - [6/26/22]

Schedule:

https://hackhpc.github.io/ADMI22/schedule.html

Presenters Contact Information:

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