

SC22
3rd Annual Hackathon!

HPC IN THE CITY: DALLAS

NOVEMBER 3-7, 2022



CloudyCluster and Google Cloud Platform Overview

cloudycluster
by Omnibond™

intel

TACC

XSEDE
Extreme Science and Engineering
Discovery Environment

globus online

Google Cloud

SGCI
Science Gateways
Community Institute



Agenda

01 Hackathon
Objectives and
Student Outcomes

02 Who are the
students?

03 Sample Project
Timeline

04 Deliverables and
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05 CloudyCluster and
Google Cloud
Platform Overview



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

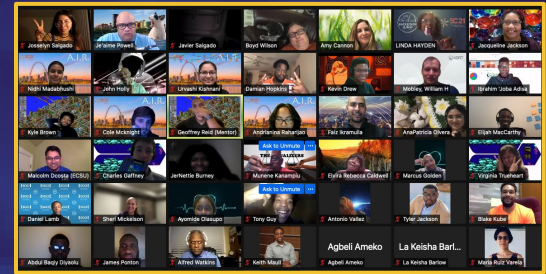


The Objective of HPC in the City

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>





CloudyCluster and the Google Cloud Platform



Questions and Concerns

Next Sessions:

- **GitHub/Discord [11/4/22]**
- **Kick-Off [11/4/22]**

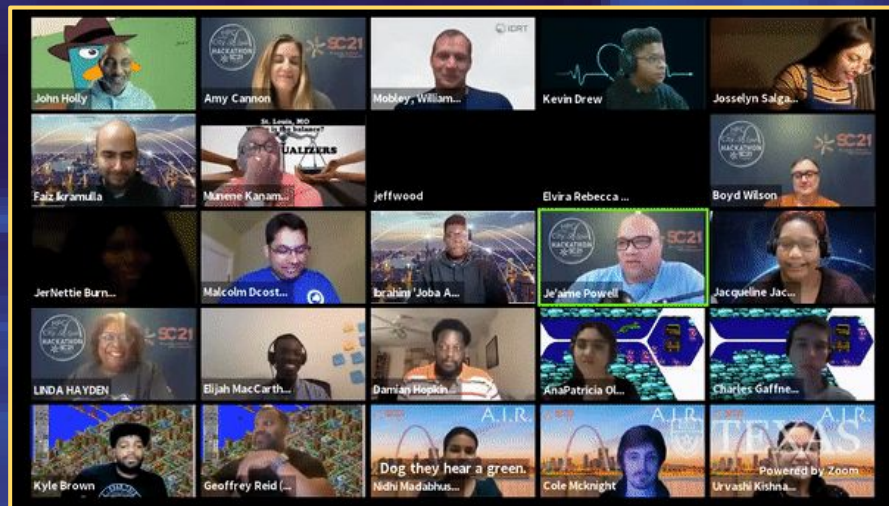
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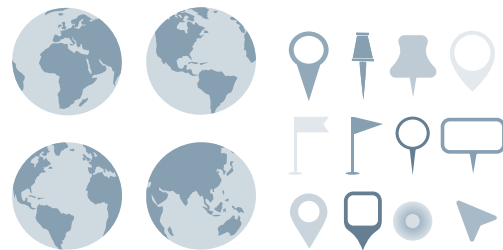
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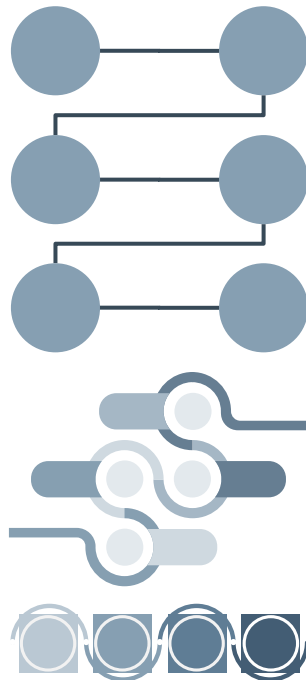
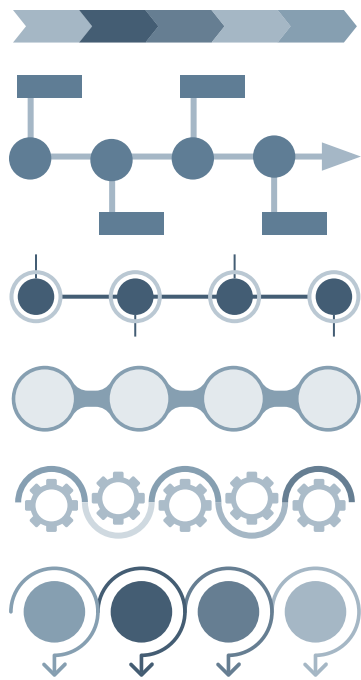
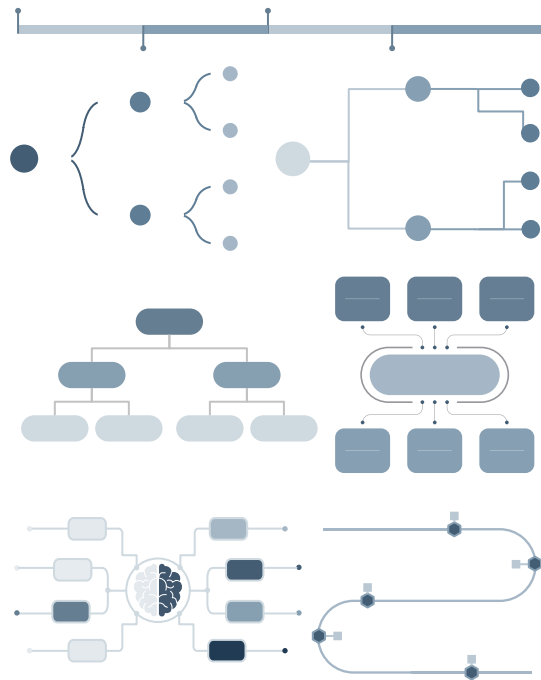
Presenters **Contact Information:**

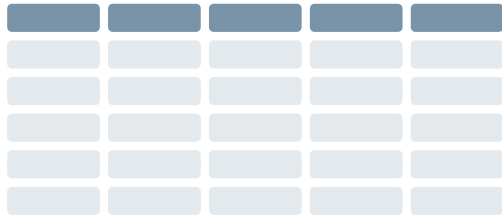
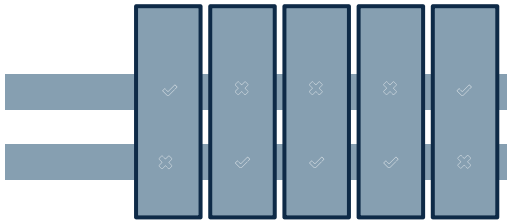
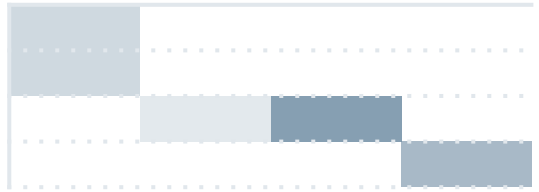
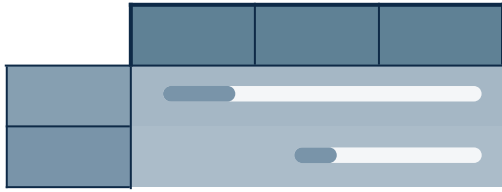
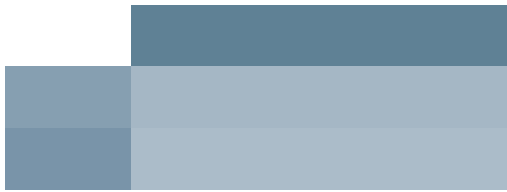
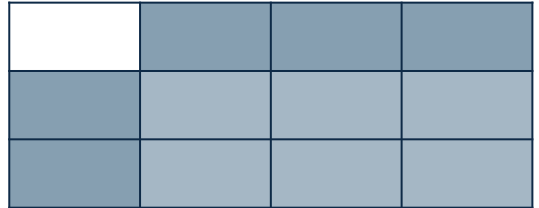
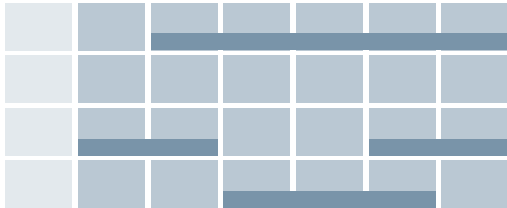
Cole Knight (*Omnibond*) - cole@omnibond.com

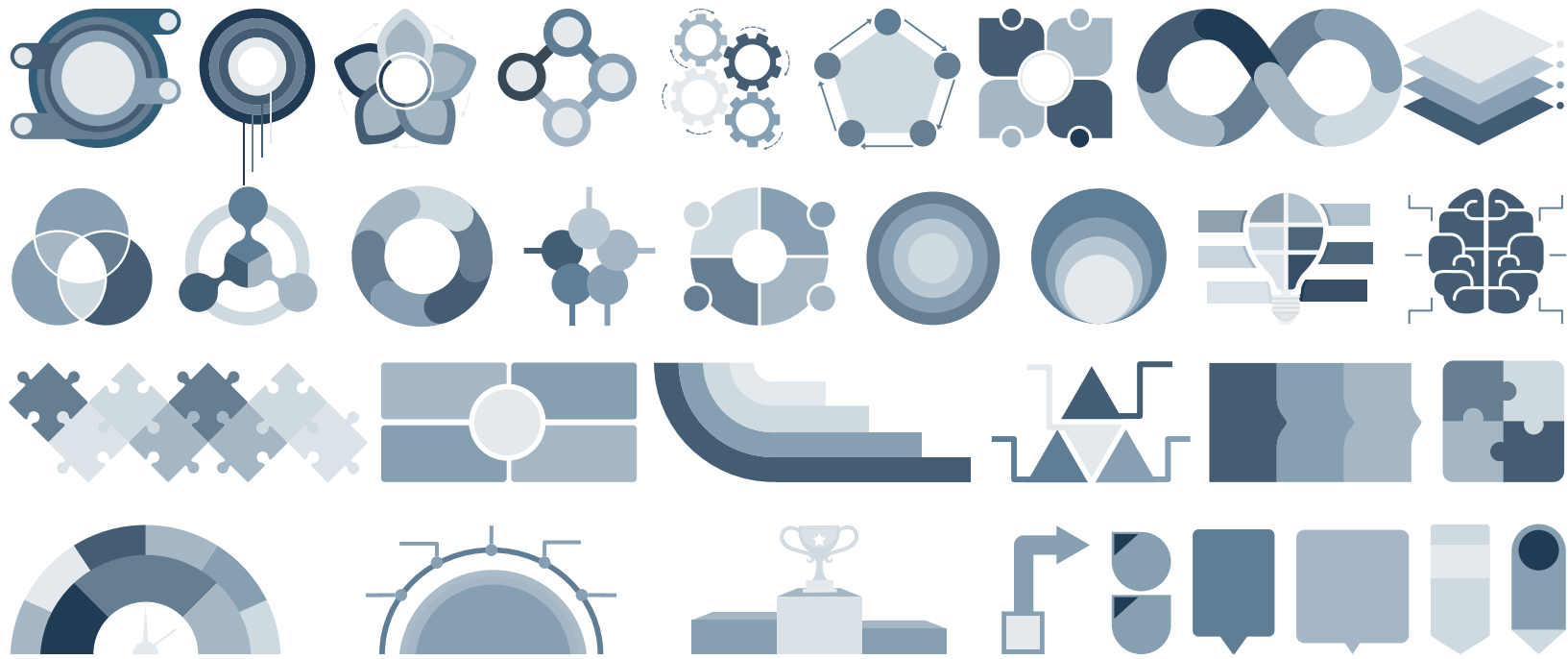
Je'aime Powell (*TACC*) - jpowell@tacc.utexas.edu

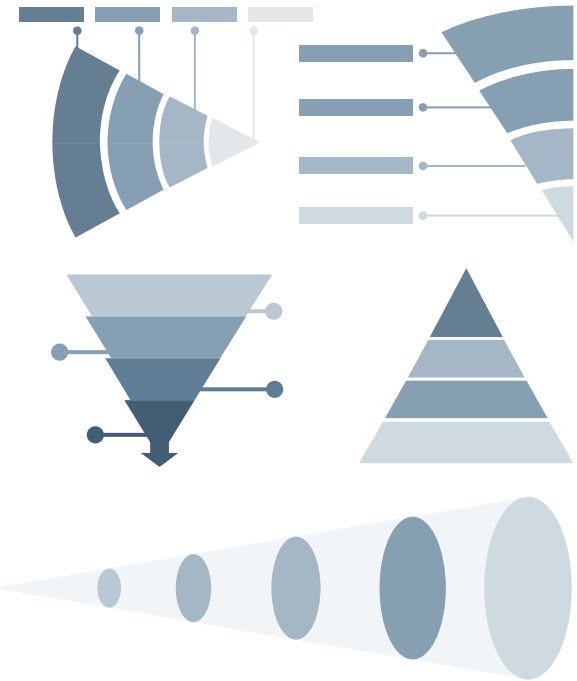
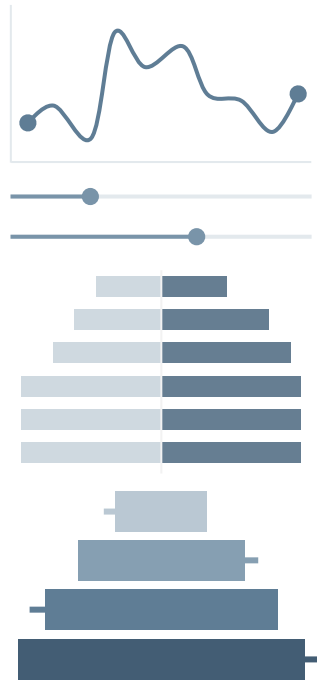












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Medical Icons



Business Icons



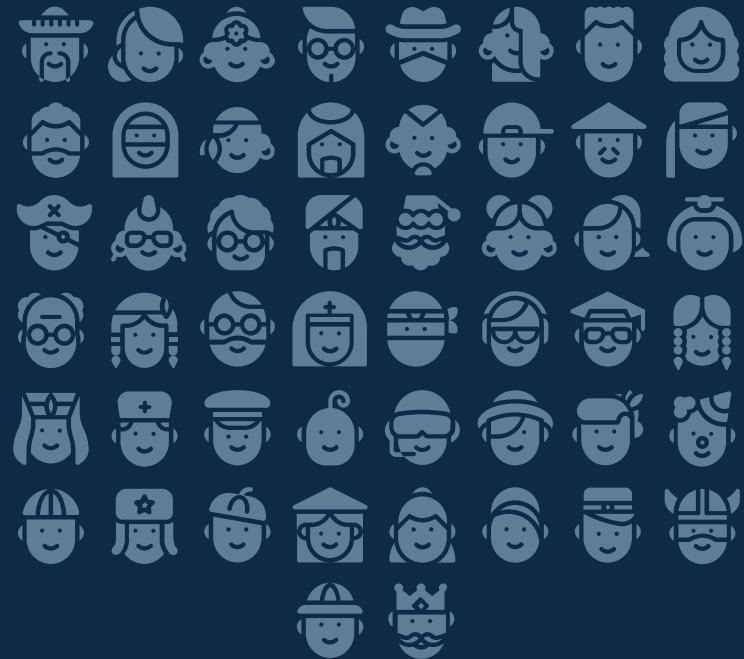
Teamwork Icons



Help & Support Icons

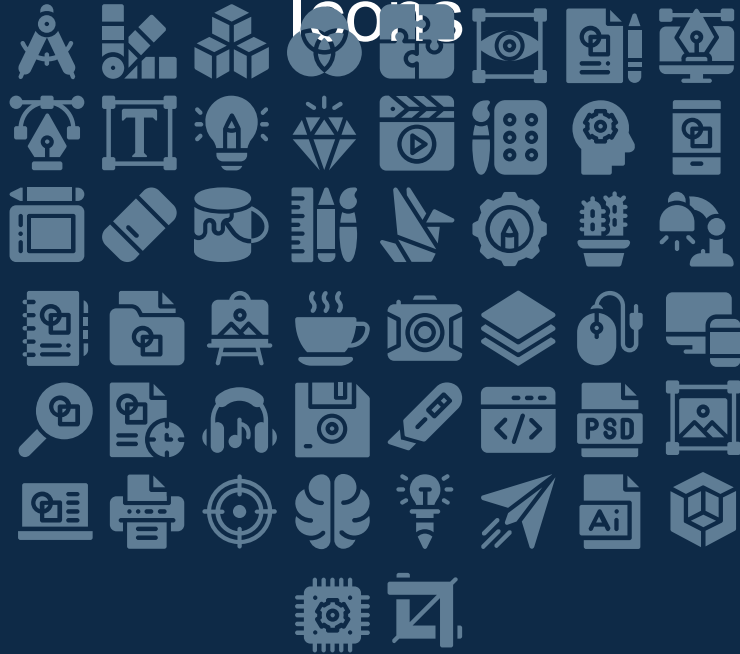


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Creative Process

Icons



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SEO & Marketing Icons



