SC22
3rd Annual Hackathon!
HPC IN THE CITY: DALLAS
NOVEMBER 3-7, 2022
Kick-Off
cloudycluster
by Omnibond
intel
TACC
Google Cloud
XSEDE
Extreme Science and Engineering Discovery Environment
globus online
SGCI
Science Gateways Community Institute

# Agenda

01 Introductions and Code of Conduct

02 Hackathon Objectives

03 Deliverables and Resources

04 Judging Criteria

05 Mentor Pitches and Team Formation

Join our Discord Server
https://discord.gg/ARg3vwWafF

# Organizers

**Linda Hayden** - *ECSU/SGCI*
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https://hackhpc.github.io/HPCintheCity22

Presenter: Alex Nolte

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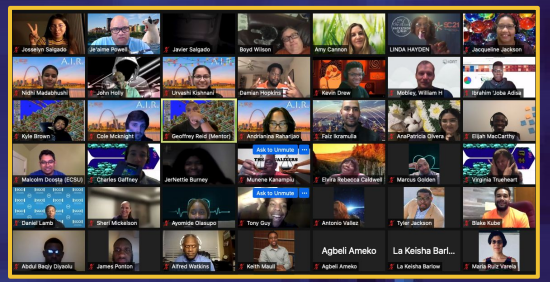
# The Objective of HPC in the City

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



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# General Information (the 3 T's)

- **Teams**
  - 4-5 Students
  - 1 Primary Mentor
  - 1 Technical Mentor
- **Time**
  - November 3rd - November 7th
    - 11/3 @~7pm ET Event Start
      - Team Formation
    - 11/[4-6] @ 11am ET & 7pm ET- Checkins
    - 11/7@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

# 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

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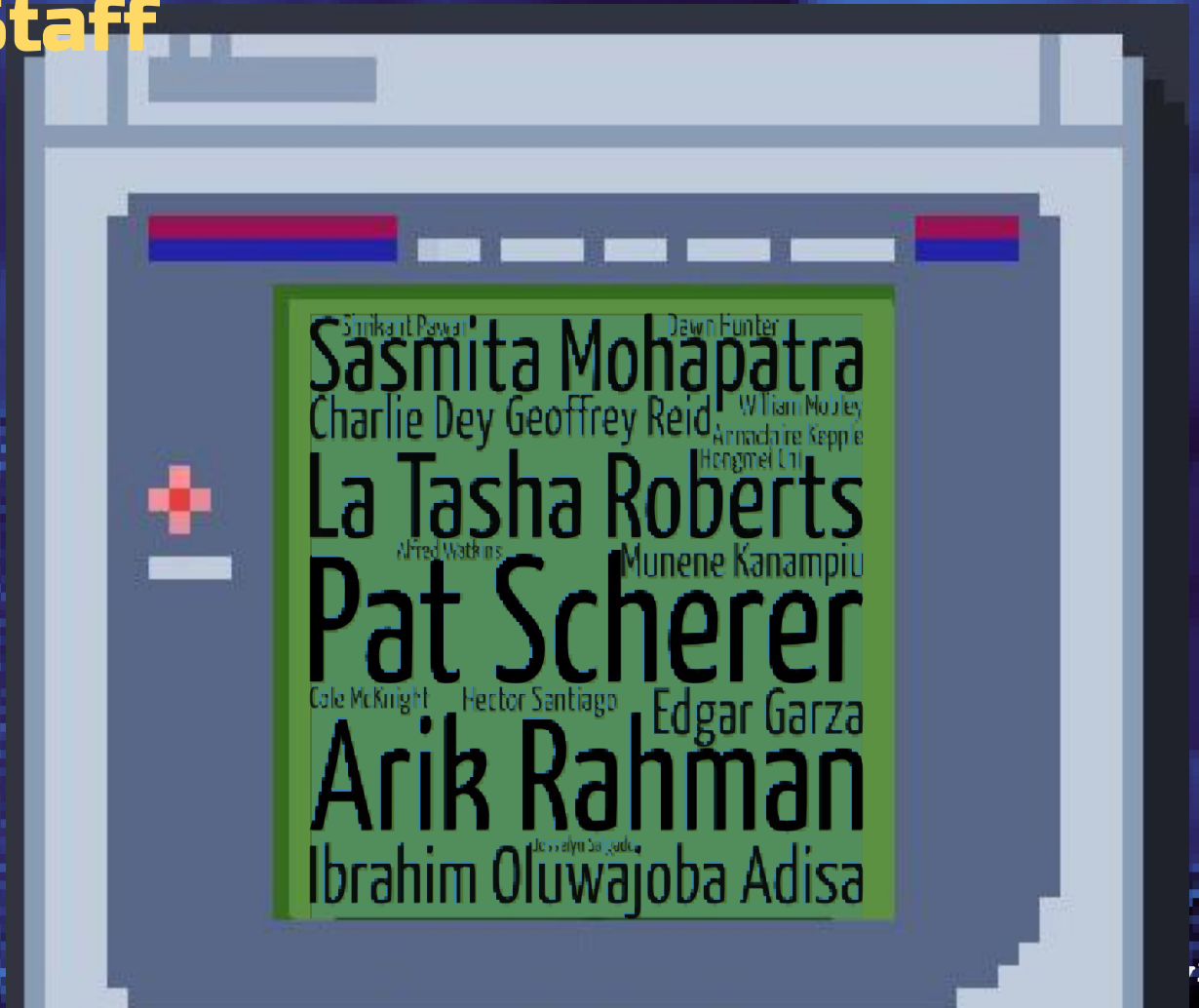
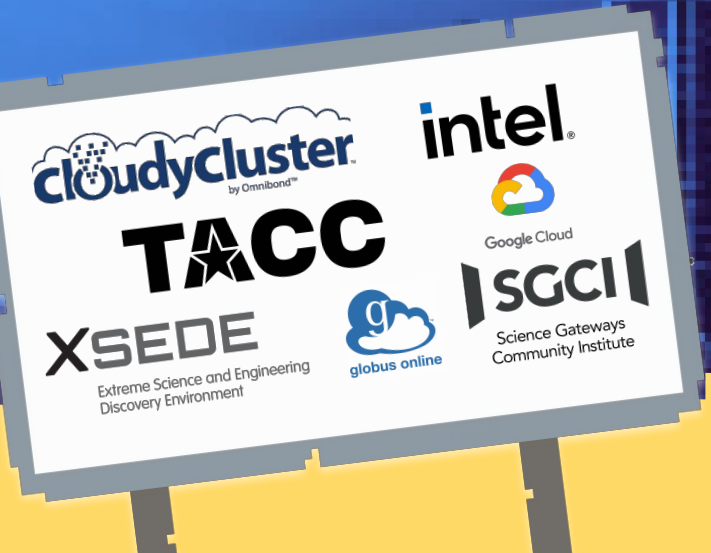
# Mentors and Staff



# Mentor Pitches



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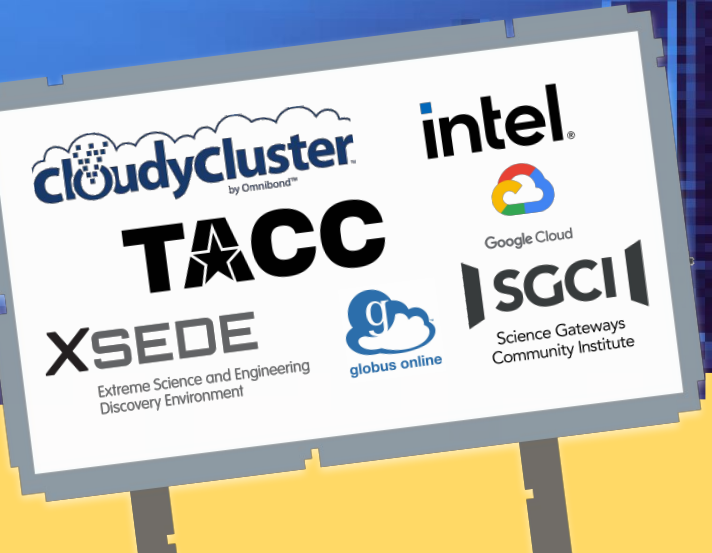
# Team Formation



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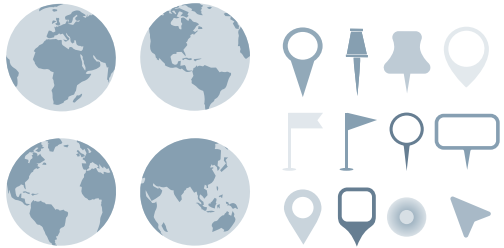
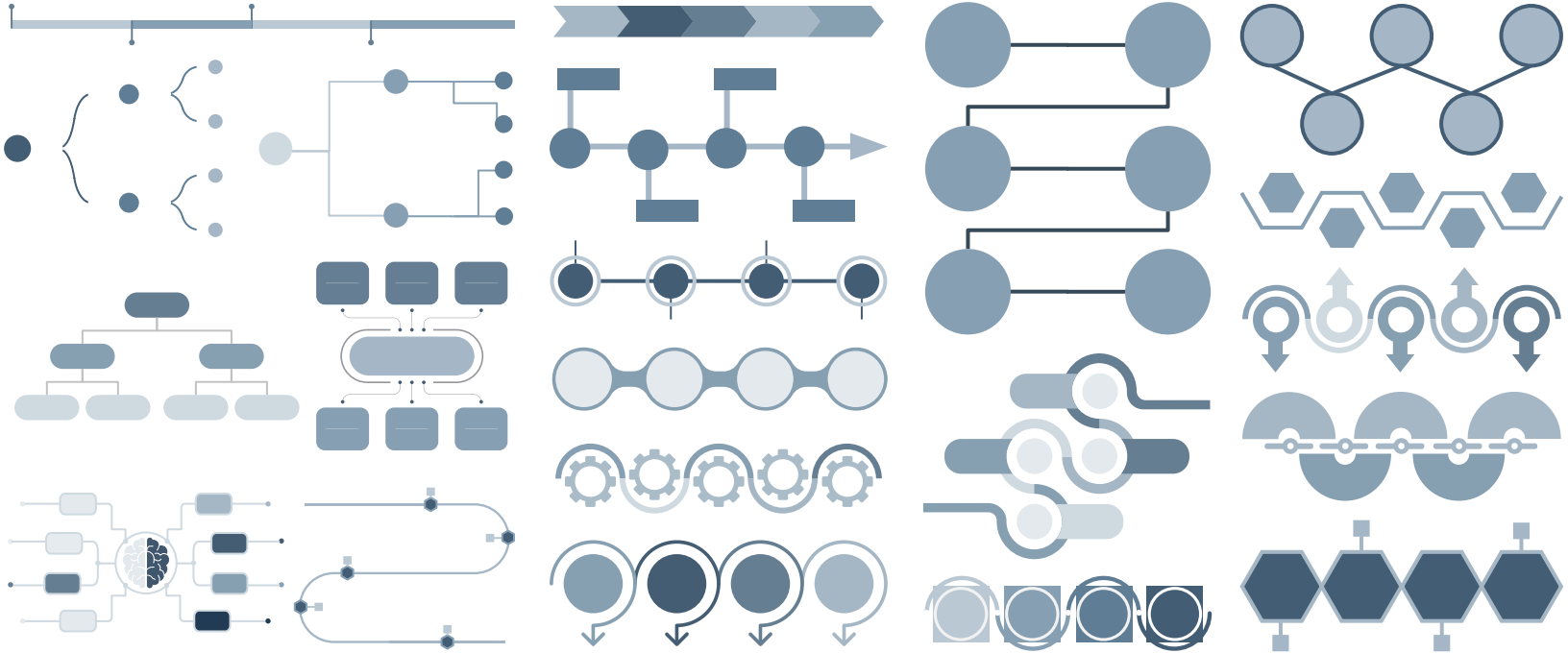
# Questions and Concerns

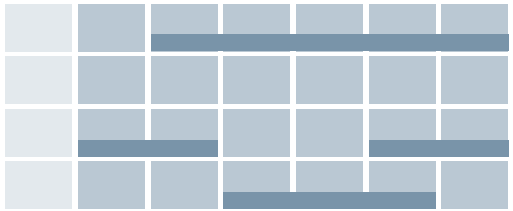
Next Sessions:

- **Judges Overview [*11/4/22*]**
- **Morning Checkin [*11/4/22*]**
  - **Team Introductions**
- **Afternoon Checkin [*11/4/22*]**
  - **Team Goals**

Schedule:
https://hackhpc.github.io/HPCintheCity22/schedule







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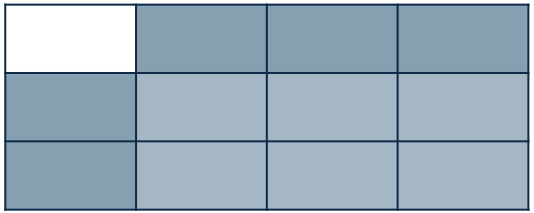

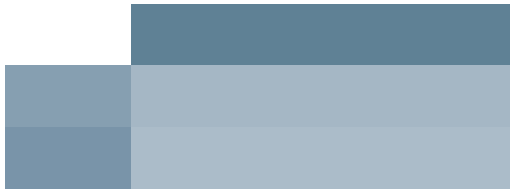

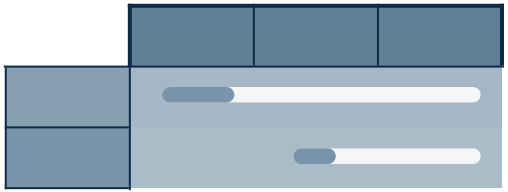

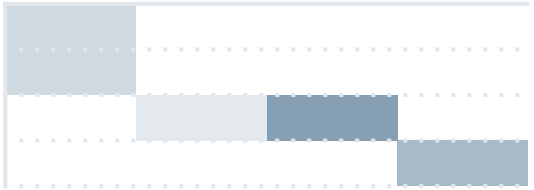

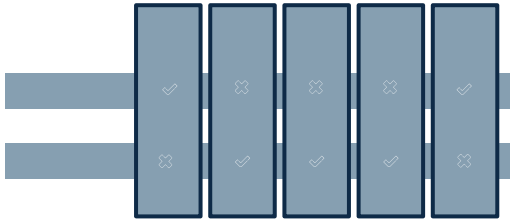

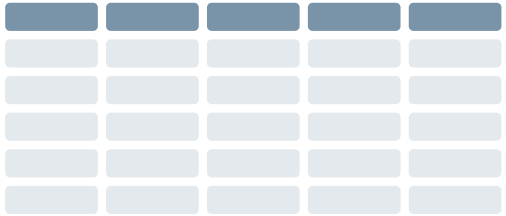

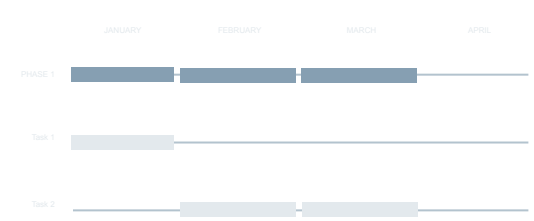
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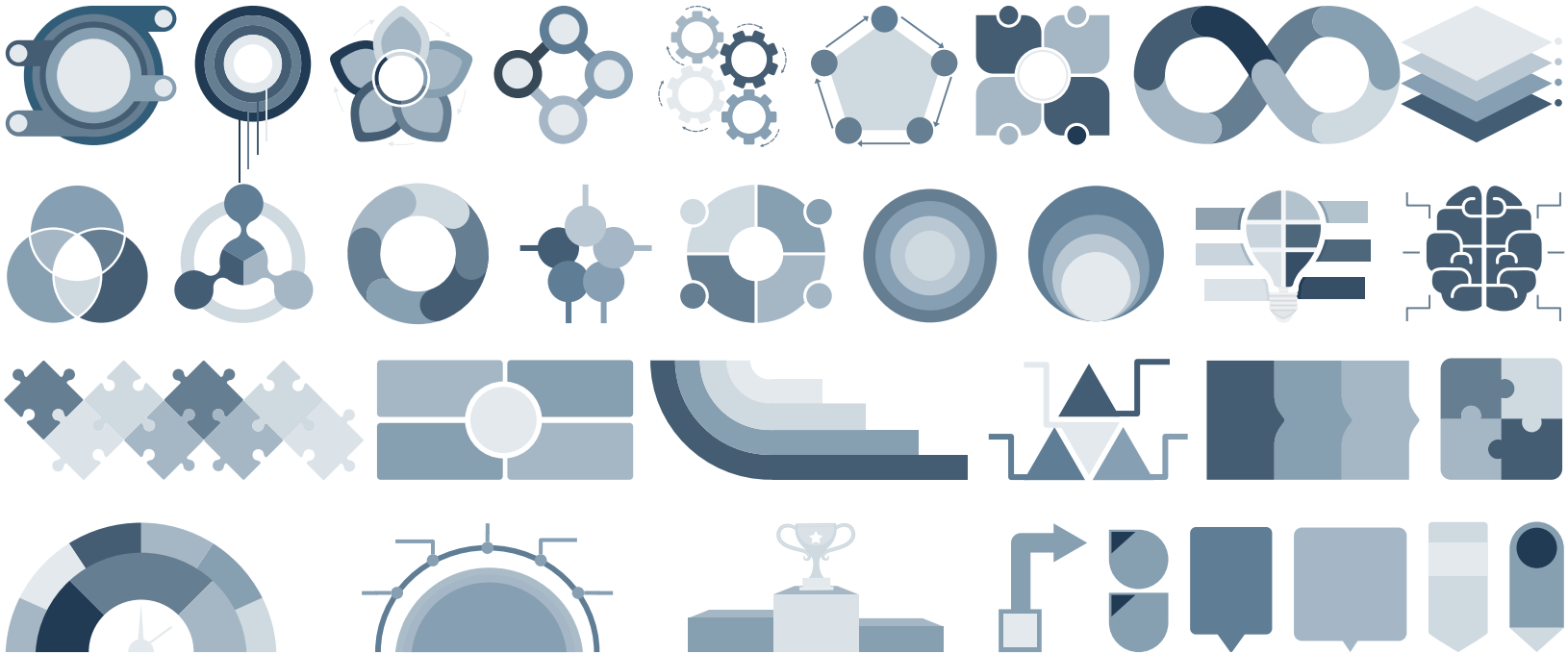


# ...and our sets of editable icons

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.

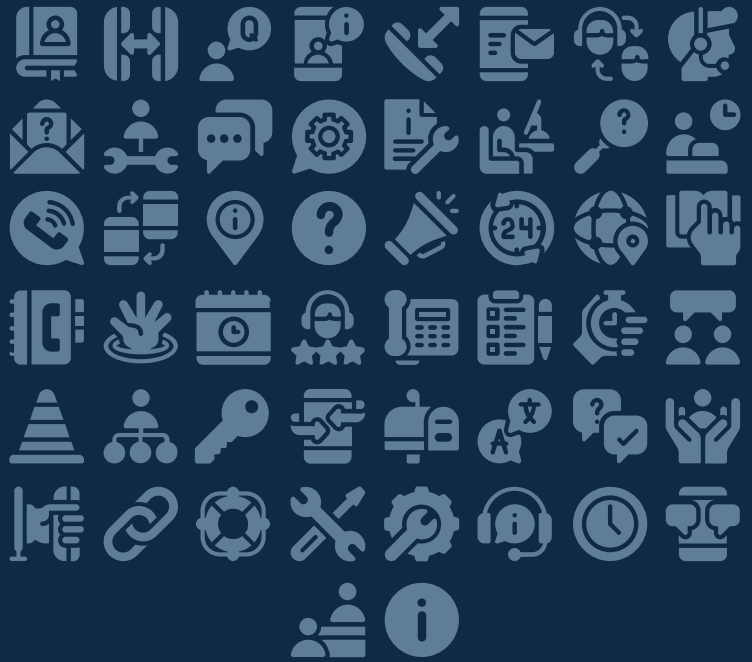
## Educational Icons

## Medical Icons

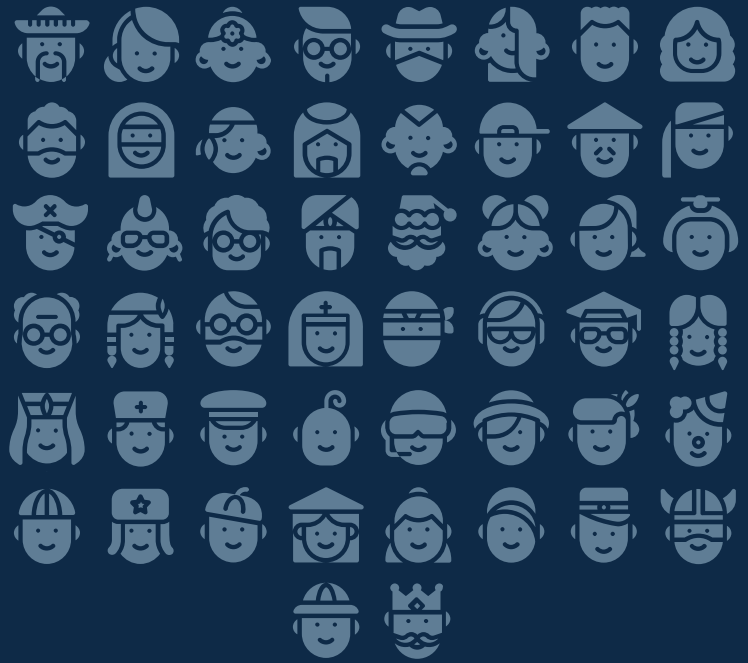
## Business Icons

## Teamwork Icons

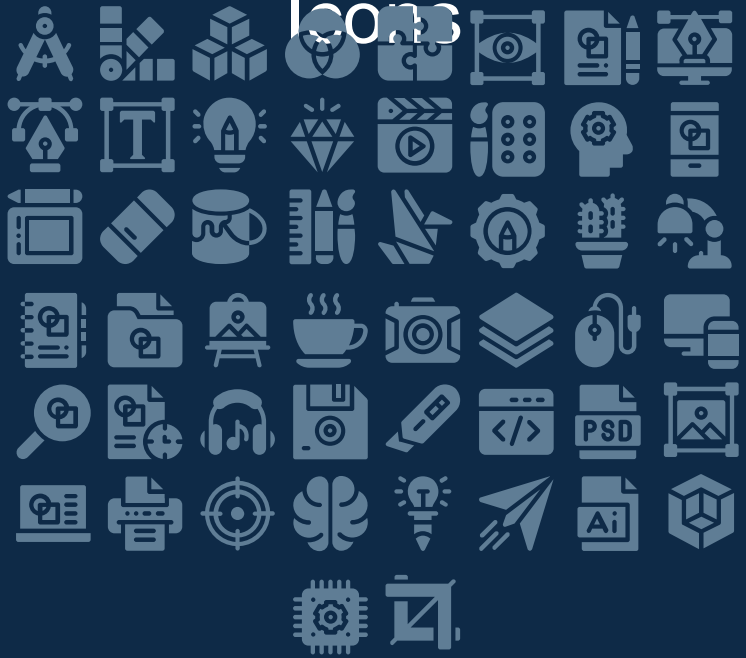
# Help & Support Icons



# Avatar Icons



# Creative Process Icons




# Performing Arts Icons

# Nature Icons

# SEO & Marketing Icons

slidesgo