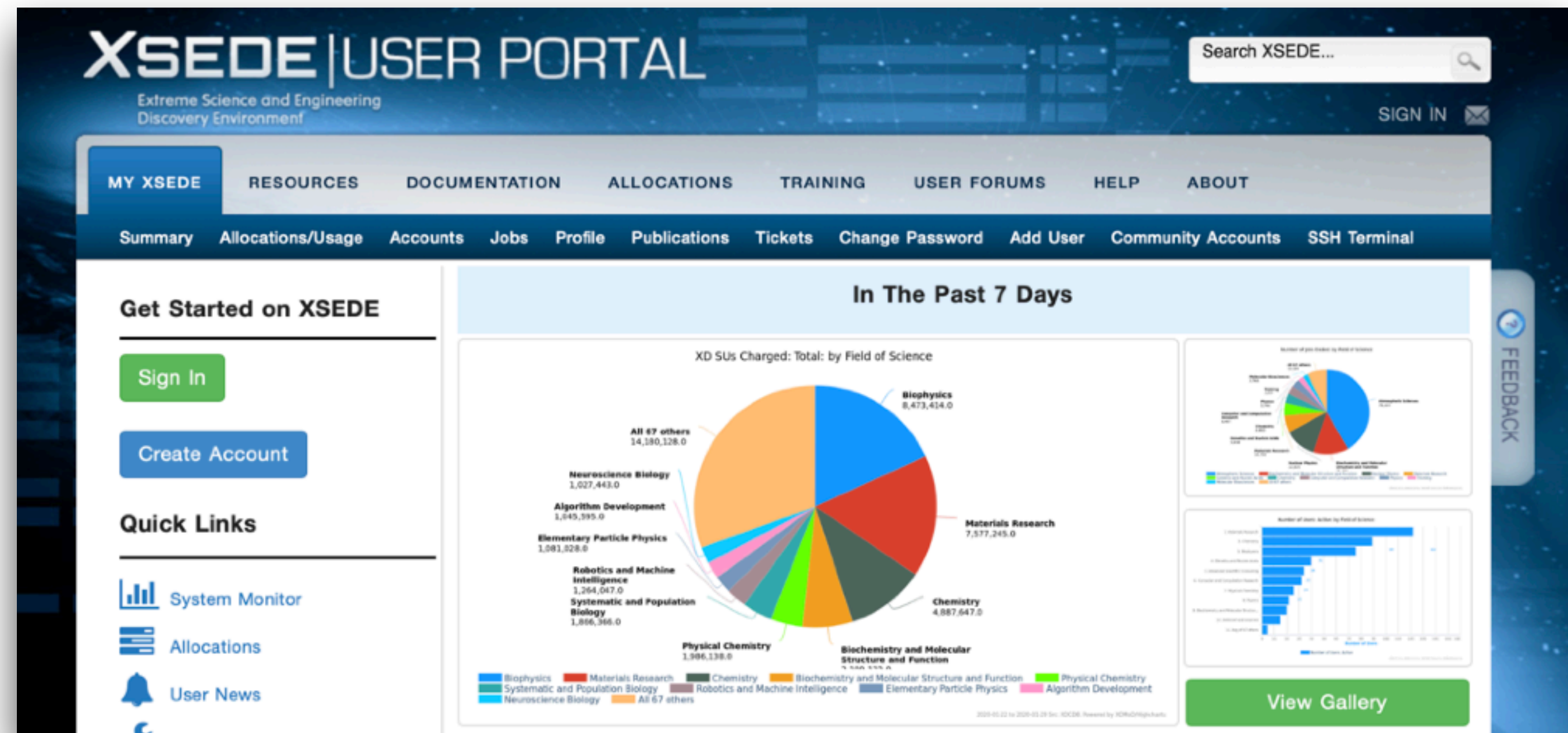


# Review: UNIX Terminal Essentials

- Try the following commands
  - echo \$SHELL - echo reports the value of a variable. \$SHELL is the terminal interface you are using, and will affect the details of all other commands. bash is a popular shell.
  - File operations
    - ls – list files and directories
    - cp – copy files
    - rm – remove files and directories
    - mv – rename or move files and directories to another location
  - Directory management
    - pwd – confirm current directory
    - cd – change directory
    - mkdir – make new directory
    - rmdir – remove directory
- Also see
  - <https://www.unixtutorial.org/basic-unix-commands>
  - An Introduction to Linux (<https://www.youtube.com/watch?v=IVquJh3DXUA>). Work with the terminal starts at 3:35.

- A lot of what we will work through today is covered in the “Getting started with XSEDE” tutorial.
- This can be found at <http://portal.xsede.org/>. Click on the tabs marked “Documentation” and “Get Started”.
- You should already have
  - an XSEDE account and access to the class allocation
  - signed up for Multi-Factor Authentication with Duo (<https://portal.xsede.org/mfa>)
- So you can start from “Login to your Allocated Resources” on the left pane.



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**Getting Started with XSEDE**  
Last update: October 31, 2019

**What is XSEDE?**

The Extreme Science and Engineering Discovery Environment (XSEDE) is a virtual collaboration funded by the National Science Foundation that facilitates free, customized access to advanced digital resources, consulting, training, and mentorship. XSEDE helps the nation's most creative minds discover breakthroughs and solutions for some of the world's greatest scientific challenges.

XSEDE's virtual cyberinfrastructure allows scientists to interactively share computing resources, data, and expertise. XSEDE resources may be broadly categorized as follows: High Performance Computing, High Throughput Computing, Visualization, Storage, and Data Services. Many resources provide overlapping functionality across categories.

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