What is running on cluster, where? interpreting slurmtop

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**Clusters and Storage**

- Mercer (HPC, retired)
- Prince (HPC)
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# Running jobs on the Prince Cluster

## Accessing the Prince Cluster
- From Windows workstation
- From Mac workstation

## Software and Environment Module

## Job script and resource request
- Introduction to job scheduling
- Submitting jobs with `sbatch`
- Requesting resources
- Using computing nodes interactively

## Monitoring batch jobs
- Monitoring batch jobs - `squeue`
The program `slurmtop`, available on the login nodes, shows which jobs are currently running on which nodes and cores of a cluster.

Jobs belonging to a single user can be highlighted by launching `slurmtop` with the `-u` switch:

```
slurmtop -u <NetID>
```

(of course, replace `<NetID>` with your NYU NetID). Or, you can use the alias "me":

```
slurmtop -u me
```

When you start slurmtop you see something like the annotated screenshot below. You might need to resize your terminal to make it all fit:
What hardware is available?

You can use slurmtop to see which nodes are busy and which are free. Knowing what resources are available on a given node can help in estimating how busy is that part of the cluster that your job needs.

Node types we have, and where they appear in slurmtop, are:

Exercise
Start slurmtop and find your interactive session.

You'll probably need to use `slurmtop -u me` to identify your job amongst all the colors.

You'll probably also need to increase the size of your terminal window and decrease the font size so it all fits!