What is running on cluster, where? interpreting slurmtop

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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:
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!

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:
28 cores, 125 GB

28 cores, 250 GB

20 cores, 62 GB

4 cards each GPU node