

General Instructions CASA tutorials

Log in

Your username is `imagenn`, where `nn` is a two digit number ranging from 01 to 38. Please use the username/password combination on the piece of paper taped next to your machine.

Open a terminal window and select a printer

Open a terminal window either by clicking on the Terminal Icon, or from the applications menu by choosing **system tools** and **terminal**. In that window enter `cd /tmp` to go to a disk local to your computer. At this point you may want to create a subdirectory to work in; e.g. `mkdir mydirectory` followed by `cd mydirectory`.

Select a printer by `export PRINTER=weir128` (first floor) or `export PRINTER=weir209` (second floor).

Copy scripts and data

Copy the scripts and data you need for your particular tutorial from the server to your local disk:

VLA Continuum (1 script and 3 data files)

```
cp /fs/tmp/casa/Scripts/polnAll.py .
cp /fs/tmp/casa/Data/VLA/3C129/AT166_? .
```

VLA Spectral Line (3 scripts and 4 data files)

```
cp /fs/tmp/casa/Scripts/script2403_?.py .
cp /fs/tmp/casa/Data/VLA/NGC2403/AS649_? .
```

BIMA Millimeter (1 script and 16 data files)

```
cp /fs/tmp/casa/Scripts/ngc4826_tutorial.py .
mkdir fitsfiles
cp /fs/tmp/casa/Data/BIMA/NGC4826/* fitsfiles
```

Not part of the official tutorials, here are two more scripts you may want to look at:

NGC5921 VLA spectral line (1 script and 1 data file)

```
cp /fs/tmp/casa/Scripts/ngc5921_usecase.py .
cp /fs/tmp/casa/Data/VLA/NGC5921/NGC5921.fits .
```

Jupiter 6cm continuum (4 scripts and 1 data file)

```
cp /fs/tmp/casa/Scripts/jupiter6cm_*.py .
cp /fs/tmp/casa/Data/VLA/Planets6cm/planets_6cm.fits .
```

Start CASA

From the command line, type `casapy`

Run a script

For example, for the VLA Continuum tutorial, type:

```
execfile('polnAll.py')
```

after the CASA prompt, e.g. `CASA <1>`. See, however, note 2 below.

Notes

1. you exit CASA by typing **exit**, **quit**, or **control-D**
2. we recommend participants go through the scripts by cutting and pasting sections from the scripts to the CASA interpreter, and playing around with the parameters. We do not recommend running the scripts in their entirety, since a) this is much less instructive, and b) a recently discovered bug may cause a segmentation fault the first time the tasks `plotxy` or `plotcal` are run in the script. Should you run the script anyway and this happens, restart CASA and try again
3. Some tutorials run from beginning to end, without requiring user input. Others stop at times to allow interactive use, and require a carriage return to continue
4. See also <http://casa.nrao.edu/Tutorial/SIworkshop2008/>