

UCLA SSCERT

Social Sciences Center for Education, Research, and Technology

v0.11, last updated 5 January 2024.

Using R

Running R on SSCERT HPC.

Loading appropriate toolchain

Use the command `module use toolchain_name` to load a toolchain.

For example, to load R/4.1.2, which first requires the gcc-11.2 toolchain:

```
module use /opt/ohpc/pub/eb-gcc112/modules/all
```

Load R

Use the command `module load module_name` to load a module.

```
module load R/4.1.2-foss
```

For R 4.2.1:

```
module load R/4.2.1
```

Doing a `module list` will then confirm R is currently loaded (#93 in this example).

```
[brian@sms ~]$ module list
```

```
Currently Loaded Modules:
```

```
1) autotools
```

```
2) prun/2.2
```

```
48) libffi/3.4.2-GCCcore-11.2.0
```

```
49) gettext/0.21-GCCcore-11.2.0
```

```
3) gnu9/9.4.0
```

```
50) PCRE/8.45-GCCcore-11.2.0
```

```
[text block snipped]
```

```
45) Mesa/21.1.7-GCCcore-11.2.0
```

```
92) libgit2/1.1.1-GCCcore-11.2.0
```

```
46) libGLU/9.0.2-GCCcore-11.2.0
```

```
93) R/4.1.2-foss-2021b
```

```
47) pixman/0.40.0-GCCcore-11.2.0
```

```
[brian@sms ~]$
```

Run R

You may run R via normal command line:

```
[brian@sms ~]$ R
```

Full Example

```
[brian@sms ~]$ module use /opt/ohpc/pub/eb-gcc112/modules/all
```

```
The following have been reloaded with a version change:
```

```
1) libfabric/1.13.0 => libfabric/1.13.2-GCCcore-11.2.0
```

```
[brian@sms ~]$ module load R/4.1.2-foss
```

```
The following have been reloaded with a version change:
```

```
1) hwloc/2.7.0 => hwloc/2.5.0-GCCcore-11.2.0
```

```
[brian@sms ~]$ R
```

```
R version 4.1.2 (2021-11-01) -- "Bird Hippie"
```

```
Copyright (C) 2021 The R Foundation for Statistical Computing
```

```
Platform: x86_64-pc-linux-gnu (64-bit)
```

```
R is free software and comes with ABSOLUTELY NO WARRANTY.
```

You are welcome to redistribute it under certain conditions.
Type `'license()'` or `'licence()'` for distribution details.

Natural language support but running in an English locale

R is a collaborative project with many contributors.
Type `'contributors()'` for more information and
`'citation()'` on how to cite R or R packages in publications.

Type `'demo()'` for some demos, `'help()'` for on-line help, or
`'help.start()'` for an HTML browser interface to help.
Type `'q()'` to quit R.

>