

UCLA SSCERT

Social Sciences Center for Education, Research, and Technology

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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
```

For example, to load R/4.2.1, which first requires the gnu12 toolchain (please note: the gnu12 toolchain is normally loaded by default):

```
module use /opt/ohpc/moduledeps/gnu12
```

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 | 48) libffi/3.4.2-GCCcore-11.2.0 |
| 2) prun/2.2 | 49) gettext/0.21-GCCcore-11.2.0 |
| 3) gnu9/9.4.0 | 50) PCRE/8.45-GCCcore-11.2.0 |

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- | | |
|----------------------------------|----------------------------------|
| 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

R 4.1.2:

```
[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.
```

```
>
```