

Software Requirements for Section 3

July 25, 2020

1. Section 3 of the workshop covers several applications of process features to practical testing problems. We will go over these applications in an interactive R tutorial. Running the tutorial locally requires the `learnr` R package. It can be installed with the following R command.

```
install.packages("learnr", dependencies = T)
```

2. Assuming that the `ProcData` package and its dependencies have been successfully installed, Section 3 additionally requires the following R packages:

(a) `glmnet`: To install this package and its dependencies, run:

```
install.packages("glmnet", dependencies = T)
```

(b) `mirt`: To install this package and its dependencies, run:

```
install.packages("mirt", dependencies = T)
```

(c) `inline`: To install this package and its dependencies, run:

```
install.packages('inline', dependencies = T)
```

(d) doSNOW: To install this package and its dependencies, run:

```
install.packages('doSNOW', dependencies = T)
```

You can check that a package is successfully installed by running `library(<packagename>)`, for example, `library(glmnet)`. You may see warnings, but not errors messages.

3. For Windows users, please ensure that Rtools 4.0.0 has been added to the system path.

This can be checked by retarting R and running the following command:

```
Sys.which("make")
```

The above command should return the directory that contains `make.exe`, for example, `"C:\\rtools40\\usr\\bin\\make.exe"`. If this is what you get, you are all set. Otherwise, please make sure you have followed the Rtools installation guidelines at <https://cran.r-project.org/bin/windows/Rtools/> and restart R before checking again.