

# Validation Report for Demo Environment Validation

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# 1 Release details

## 1.1 Package Information

### 1.1.1 Change Log

Version	Effective Date	Activity Description
1.1	2022-01-12	Update with new directory structure
1.0	2021-12-08	Validation release notes for version 1.0

### 1.1.2 Validation Environment

Type	Resource	Version Detail
system	OS	Ubuntu 18.04.5 LTS
	R	4.0.2
session	devtools	2.4.3
	dplyr	1.0.7
	kableExtra	1.3.4
	knitr	1.36
	magrittr	2.0.1
	renv	0.14.0
	riskmetric	0.1.1
	stringr	1.4.0
	testthat	3.1.1
	usethis	2.1.3
	valtools	0.4.0.9000

## 1.2 Authors

### 1.2.1 Requirements

Requirement ID	Editor	Edit Date
1	Eli Miller	2022-01-12
2	Eli Miller	2022-02-15

### 1.2.2 Test Case Authors

Test Case ID	Editor	Edit Date
1	Eli Miller	2022-01-12
2	Eli Miller	2022-01-12

### 1.2.3 Test Code Authors

Test Code ID	Editor	Edit Date
1	Eli Miller	2021-12-07
2	Eli Miller	2021-12-07

## 1.3 Traceability

Requirement Name	Requirement ID	Test Case Name	Test Cases
Requirement 1	1.1	1	1.1
	1.2		1.2
	1.3		1.3
Requirement 2	2.1	2	2.1
	2.2		2.1

## 2 Risk Assessment

### 2.1 Requirement Assessments

Requirement Name	Requirement ID	Risk Assessment
1	1.1	Low Risk
	1.2	Low Risk
	1.3	Low Risk
2	2.1	Low Risk

### 2.2 Package Assessments

This table displays the riskmetric score of the `dplyr` and `Tplyr` packages. Other packages can be added as needed.

Package	riskmetric.Scores
Tplyr	0.5010679
dplyr	0.3293779

## 3 Validation

### 3.1 R Base

#### 3.1.1 R Base Requirements

- 1.1: The R installation was installed with tests
- 1.2: The R installation tests complete successfully
- 1.3: The system must have the ability to work with the system png device

#### 3.1.2 Setup Instructions

None

#### 3.1.3 R Base Test Cases

- 1.1: A directory named `tests` exists in the R installation directory.
- 1.2: The function `tools::testInstalledBasic()` returns a 0
- 1.3: The system was compiled to support the png engine.

#### 3.1.4 R Base Test Code Results

Test	Results	Pass/Fail
1.1	As expected	Pass
1.2	As expected	Pass
1.3	As expected	Pass

### 3.2 Tplyr

#### 3.2.1 Tplyr Requirements

- 2.1: Population data can be specified by the user

#### 3.2.2 Setup Instructions

- Load in Tplyr packages.

#### 3.2.3 Tplyr Test Cases

- 2.1: Verify target dataset in table is the same as specified
- 2.2: Verify treatment variable in table is same as specified

Test	Results	Pass/Fail
2.1	As expected	Pass
2.2	As expected	Pass

### 3.2.4 Tplyr Test Results

## 3.3 Installed System Packages

```

Diagnostics Report [renv 0.14.0]
=====

# Session Info =====
R version 4.0.2 (2020-06-22)
Platform: x86_64-pc-linux-gnu (64-bit)
Running under: Ubuntu 18.04.5 LTS

Matrix products: default
BLAS:   /usr/lib/x86_64-linux-gnu/openblas/libblas.so.3
LAPACK: /usr/lib/x86_64-linux-gnu/libopenblas-r0.2.20.so

locale:
 [1] LC_CTYPE=C.UTF-8      LC_NUMERIC=C           LC_TIME=C.UTF-8
 [4] LC_COLLATE=C.UTF-8    LC_MONETARY=C.UTF-8    LC_MESSAGES=C.UTF-8
 [7] LC_PAPER=C.UTF-8      LC_NAME=C              LC_ADDRESS=C
[10] LC_TELEPHONE=C        LC_MEASUREMENT=C.UTF-8 LC_IDENTIFICATION=C

attached base packages:
[1] tools      stats      graphics  grDevices datasets  utils      methods
[8] base

other attached packages:
[1] rlang_0.4.12      Tplyr_0.4.4      testthat_3.1.1
[4] renv_0.14.0       riskmetric_0.1.1 dplyr_1.0.7
[7] stringr_1.4.0     devtools_2.4.3   usethis_2.1.3
[10] magrittr_2.0.1    kableExtra_1.3.4 knitr_1.36
[13] valtools_0.4.0.9000

loaded via a namespace (and not attached):
[1] httr_1.4.2      pkgload_1.2.4    tidyr_1.1.4
[4] jsonlite_1.7.2  viridisLite_0.4.0 assertthat_0.2.1
[7] BiocManager_1.30.16 triebeard_0.3.0  urltools_1.7.3
[10] yaml_2.2.1      remotes_2.4.2    sessioninfo_1.2.2
[13] pillar_1.6.4    backports_1.4.0  glue_1.5.1
[16] digest_0.6.29   rvest_1.0.2      colorspace_2.0-2
[19] htmltools_0.5.2 pkgconfig_2.0.3  purrr_0.3.4
[22] scales_1.1.1    webshot_0.5.2    processx_3.5.2
[25] svglite_2.0.0   whisker_0.4      tibble_3.1.6
[28] generics_0.1.1  ellipsis_0.3.2   cachem_1.0.6
[31] withr_2.4.3     cranlogs_2.1.1   lazyeval_0.2.2
[34] cli_3.1.0       crayon_1.4.2     memoise_2.0.1
[37] evaluate_0.14   ps_1.6.0         fs_1.5.1
[40] fansi_0.5.0     forcats_0.5.1    xml2_1.3.3

```

```

[43] pkgbuild_1.2.1      prettyunits_1.1.1  lifecycle_1.0.1
[46] munsell_0.5.0       callr_3.7.0        rex_1.2.1
[49] compiler_4.0.2      covr_3.5.1         systemfonts_1.0.3
[52] rstudioapi_0.13     rmarkdown_2.11     waldo_0.3.1
[55] roxygen2_7.1.2      curl_4.3.2         R6_2.5.1
[58] safetyData_1.0.0    lubridate_1.8.0    fastmap_1.1.0
[61] utf8_1.2.2          rprojroot_2.0.2    desc_1.4.0
[64] stringi_1.7.6       whoami_1.3.0       Rcpp_1.0.7
[67] vctrs_0.3.8         tidyselect_1.1.1   xfun_0.29

```

```

# Project =====
Project path: "~/GitHub/Environment-Demo"

```

```

# Status =====

```

```

# Packages =====

```

	Library	Source	Lockfile	Source	Path	Dependency
BiocManager	1.30.16	RSPM	1.30.16	RSPM	[1]	indirect
KernSmooth	2.23-17	CRAN	<NA>	<NA>	[2]	<NA>
MASS	7.3-51.6	CRAN	<NA>	<NA>	[2]	<NA>
Matrix	1.2-18	CRAN	<NA>	<NA>	[2]	<NA>
R6	2.5.1	RSPM	2.5.1	RSPM	[1]	indirect
RColorBrewer	1.1-2	RSPM	1.1-2	RSPM	[1]	indirect
Rcpp	1.0.7	RSPM	1.0.7	RSPM	[1]	indirect
Tplyr	0.4.4	CRAN	0.4.4	CRAN	[1]	direct
askpass	1.1	RSPM	1.1	RSPM	[1]	indirect
assertthat	0.2.1	RSPM	0.2.1	RSPM	[1]	indirect
backports	1.4.0	RSPM	1.4.0	RSPM	[1]	indirect
base64enc	0.1-3	RSPM	0.1-3	RSPM	[1]	indirect
boot	1.3-25	CRAN	<NA>	<NA>	[2]	<NA>
brew	1.0-6	RSPM	1.0-6	RSPM	[1]	indirect
brio	1.1.3	RSPM	1.1.3	RSPM	[1]	indirect
cachem	1.0.6	RSPM	1.0.6	RSPM	[1]	indirect
callr	3.7.0	RSPM	3.7.0	RSPM	[1]	indirect
class	7.3-17	CRAN	<NA>	<NA>	[2]	<NA>
cli	3.1.0	RSPM	3.1.0	RSPM	[1]	indirect
clipr	0.7.1	RSPM	0.7.1	RSPM	[1]	indirect
cluster	2.1.0	CRAN	<NA>	<NA>	[2]	<NA>
codetools	0.2-16	CRAN	<NA>	<NA>	[2]	<NA>
colorspace	2.0-2	RSPM	2.0-2	RSPM	[1]	indirect
commonmark	1.7	RSPM	1.7	RSPM	[1]	indirect
covr	3.5.1	RSPM	3.5.1	RSPM	[1]	indirect
cpp11	0.4.2	RSPM	0.4.2	RSPM	[1]	indirect
cranlogs	2.1.1	RSPM	2.1.1	RSPM	[1]	indirect
crayon	1.4.2	RSPM	1.4.2	RSPM	[1]	indirect
credentials	1.3.2	RSPM	1.3.2	RSPM	[1]	indirect
curl	4.3.2	RSPM	4.3.2	RSPM	[1]	indirect
desc	1.4.0	RSPM	1.4.0	RSPM	[1]	indirect
devtools	2.4.3	RSPM	2.4.3	RSPM	[1]	direct
diffobj	0.3.5	RSPM	0.3.5	RSPM	[1]	indirect
digest	0.6.29	RSPM	0.6.29	RSPM	[1]	indirect
dplyr	1.0.7	RSPM	1.0.7	RSPM	[1]	direct
ellipsis	0.3.2	RSPM	0.3.2	RSPM	[1]	indirect

evaluate	0.14	RSPM	0.14	RSPM	[1]	indirect
fansi	0.5.0	RSPM	0.5.0	RSPM	[1]	indirect
farver	2.1.0	RSPM	2.1.0	RSPM	[1]	indirect
fastmap	1.1.0	RSPM	1.1.0	RSPM	[1]	indirect
forcats	0.5.1	RSPM	0.5.1	RSPM	[1]	indirect
foreign	0.8-80	CRAN	<NA>	<NA>	[2]	<NA>
fs	1.5.1	RSPM	1.5.1	RSPM	[1]	indirect
generics	0.1.1	RSPM	0.1.1	RSPM	[1]	indirect
gert	1.4.3	RSPM	1.4.3	RSPM	[1]	indirect
gh	1.3.0	RSPM	1.3.0	RSPM	[1]	indirect
gitcreds	0.1.1	RSPM	0.1.1	RSPM	[1]	indirect
glue	1.5.1	RSPM	1.5.1	RSPM	[1]	indirect
grDevices	<NA>	<NA>	<NA>	<NA>	[2]	indirect
graphics	<NA>	<NA>	<NA>	<NA>	[2]	indirect
highr	0.9	RSPM	0.9	RSPM	[1]	indirect
htmltools	0.5.2	RSPM	0.5.2	RSPM	[1]	indirect
httr	1.4.2	RSPM	1.4.2	RSPM	[1]	indirect
ini	0.3.1	RSPM	0.3.1	RSPM	[1]	indirect
jquerylib	0.1.4	RSPM	0.1.4	RSPM	[1]	indirect
jsonlite	1.7.2	RSPM	1.7.2	RSPM	[1]	indirect
kableExtra	1.3.4	RSPM	1.3.4	RSPM	[1]	direct
knitr	1.36	RSPM	1.36	RSPM	[1]	direct
labeling	0.4.2	RSPM	0.4.2	RSPM	[1]	indirect
lattice	0.20-41	CRAN	<NA>	<NA>	[2]	<NA>
lazyeval	0.2.2	RSPM	0.2.2	RSPM	[1]	indirect
lifecycle	1.0.1	RSPM	1.0.1	RSPM	[1]	indirect
lubridate	1.8.0	RSPM	1.8.0	RSPM	[1]	indirect
magrittr	2.0.1	RSPM	2.0.1	RSPM	[1]	direct
markdown	1.1	RSPM	<NA>	<NA>	[1]	<NA>
memoise	2.0.1	RSPM	2.0.1	RSPM	[1]	indirect
methods	<NA>	<NA>	<NA>	<NA>	[2]	indirect
mgcv	1.8-31	CRAN	<NA>	<NA>	[2]	<NA>
mime	0.12	RSPM	0.12	RSPM	[1]	indirect
munsell	0.5.0	RSPM	0.5.0	RSPM	[1]	indirect
nlme	3.1-148	CRAN	<NA>	<NA>	[2]	<NA>
nnet	7.3-14	CRAN	<NA>	<NA>	[2]	<NA>
openssl	1.4.5	RSPM	1.4.5	RSPM	[1]	indirect
pillar	1.6.4	RSPM	1.6.4	RSPM	[1]	indirect
pkgbuild	1.2.1	RSPM	1.2.1	RSPM	[1]	indirect
pkgconfig	2.0.3	RSPM	2.0.3	RSPM	[1]	indirect
pkgload	1.2.4	RSPM	1.2.4	RSPM	[1]	indirect
praise	1.0.0	RSPM	1.0.0	RSPM	[1]	indirect
prettyunits	1.1.1	RSPM	1.1.1	RSPM	[1]	indirect
processx	3.5.2	RSPM	3.5.2	RSPM	[1]	indirect
ps	1.6.0	RSPM	1.6.0	RSPM	[1]	indirect
purrr	0.3.4	RSPM	0.3.4	RSPM	[1]	indirect
rappdirs	0.3.3	RSPM	0.3.3	RSPM	[1]	indirect
rcmdcheck	1.4.0	RSPM	1.4.0	RSPM	[1]	indirect
rematch2	2.1.2	RSPM	2.1.2	RSPM	[1]	indirect
remotes	2.4.2	RSPM	2.4.2	RSPM	[1]	indirect
renv	0.14.0	CRAN	0.14.0	RSPM	[1]	direct
rex	1.2.1	RSPM	1.2.1	RSPM	[1]	indirect
riskmetric	0.1.1	GitHub	0.1.1	GitHub	[1]	direct



rlang	0.4.12	RSPM	0.4.12	RSPM	[1]	direct
rmarkdown	2.11	RSPM	2.11	RSPM	[1]	direct
roxygen2	7.1.2	RSPM	7.1.2	RSPM	[1]	indirect
rpart	4.1-15	CRAN	<NA>	<NA>	[2]	<NA>
rprojroot	2.0.2	RSPM	2.0.2	RSPM	[1]	indirect
rstudioapi	0.13	RSPM	0.13	RSPM	[1]	indirect
rversions	2.1.1	RSPM	2.1.1	RSPM	[1]	indirect
rvest	1.0.2	RSPM	1.0.2	RSPM	[1]	indirect
safetyData	1.0.0	RSPM	<NA>	<NA>	[1]	direct
scales	1.1.1	RSPM	1.1.1	RSPM	[1]	indirect
selectr	0.4-2	RSPM	0.4-2	RSPM	[1]	indirect
sessioninfo	1.2.2	RSPM	1.2.2	RSPM	[1]	indirect
spatial	7.3-12	CRAN	<NA>	<NA>	[2]	<NA>
stats	<NA>	<NA>	<NA>	<NA>	[2]	indirect
stringi	1.7.6	RSPM	1.7.6	RSPM	[1]	indirect
stringr	1.4.0	RSPM	1.4.0	RSPM	[1]	direct
survival	3.1-12	CRAN	<NA>	<NA>	[2]	<NA>
svglite	2.0.0	RSPM	2.0.0	RSPM	[1]	indirect
sys	3.4	RSPM	3.4	RSPM	[1]	indirect
systemfonts	1.0.3	RSPM	1.0.3	RSPM	[1]	indirect
testthat	3.1.1	RSPM	3.1.1	RSPM	[1]	direct
tibble	3.1.6	RSPM	3.1.6	RSPM	[1]	indirect
tidyr	1.1.4	RSPM	1.1.4	RSPM	[1]	indirect
tidyselect	1.1.1	RSPM	1.1.1	RSPM	[1]	indirect
tinytex	0.36	RSPM	0.36	RSPM	[1]	indirect
tools	<NA>	<NA>	<NA>	<NA>	[2]	direct
triebeard	0.3.0	RSPM	0.3.0	RSPM	[1]	indirect
urltools	1.7.3	RSPM	1.7.3	RSPM	[1]	indirect
usethis	2.1.3	RSPM	2.1.3	RSPM	[1]	indirect
utf8	1.2.2	RSPM	1.2.2	RSPM	[1]	indirect
utils	<NA>	<NA>	<NA>	<NA>	[2]	indirect
valtools	0.4.0.9000	GitHub	0.4.0.9000	GitHub	[1]	direct
vctrs	0.3.8	RSPM	0.3.8	RSPM	[1]	indirect
viridisLite	0.4.0	RSPM	0.4.0	RSPM	[1]	indirect
waldo	0.3.1	RSPM	0.3.1	RSPM	[1]	indirect
webshot	0.5.2	RSPM	0.5.2	RSPM	[1]	indirect
whisker	0.4	RSPM	0.4	RSPM	[1]	indirect
whoami	1.3.0	RSPM	1.3.0	RSPM	[1]	indirect
withr	2.4.3	RSPM	2.4.3	RSPM	[1]	indirect
xfun	0.29	RSPM	0.29	RSPM	[1]	indirect
xml2	1.3.3	RSPM	1.3.3	RSPM	[1]	indirect
xopen	1.0.0	RSPM	1.0.0	RSPM	[1]	indirect
yaml	2.2.1	RSPM	2.2.1	RSPM	[1]	indirect
zip	2.2.0	RSPM	2.2.0	RSPM	[1]	indirect

[1]: /home/eli.miller/GitHub/Environment-Demo/renv/library/R-4.0/x86\_64-pc-linux-gnu

[2]: /tmp/RtmpaaIN70/renv-system-library

# User Profile =====

[no R packages referenced in user profile]

# Settings =====

List of 8

```

$ external.libraries      : chr(0)
$ ignored.packages        : chr(0)
$ package.dependency.fields: chr [1:3] "Imports" "Depends" "LinkingTo"
$ r.version                : chr(0)
$ snapshot.type           : chr "implicit"
$ use.cache                : logi TRUE
$ vcs.ignore.library       : logi TRUE
$ vcs.ignore.local         : logi TRUE

# Options =====
List of 8
 $ defaultPackages          : chr [1:6] "datasets" "utils" "grDevices" "graphics" ...
 $ download.file.method     : NULL
 $ download.file.extra      : NULL
 $ install.packages.compile.from.source: NULL
 $ pkgType                  : chr "source"
 $ repos                    : Named chr [1:2] "https://atorus-rspm.eastus2.cloudapp.azure.co
 ..- attr(*, "names")= chr [1:2] "CRAN" "atorus-latest"
 $ renv.consent             : logi TRUE
 $ renv.verbose             : logi TRUE

# Environment Variables =====
HOME                = /home/eli.miller
LANG                = C.UTF-8
MAKE                = make
R_LIBS              = /home/eli.miller/GitHub/Environment-Demo/renv/library/R-4.0/x86_64-pc-lin
R_LIBS_SITE         =
R_LIBS_USER         = /home/eli.miller/GitHub/Environment-Demo/renv/library/R-4.0/x86_64-pc-lin
RENV_DEFAULT_R_ENVIRON = <NA>
RENV_DEFAULT_R_ENVIRON_USER = <NA>
RENV_DEFAULT_R_LIBS   = <NA>
RENV_DEFAULT_R_LIBS_SITE =
RENV_DEFAULT_R_LIBS_USER = ~/R/x86_64-pc-linux-gnu-library/4.0
RENV_DEFAULT_R_PROFILE = <NA>
RENV_DEFAULT_R_PROFILE_USER = <NA>
RENV_PROJECT         = /home/eli.miller/GitHub/Environment-Demo

# PATH =====
- /home/eli.miller/bin
- /opt/anaconda3/condabin
- /usr/local/sbin
- /usr/local/bin
- /usr/sbin
- /usr/bin
- /sbin
- /bin
- /snap/bin
- /bin
- /opt/R/3.6.2/bin/
- /usr/lib/rstudio-server/bin/postback

# Cache =====
There are a total of 152 package(s) installed in the renv cache.

```

```
Cache path: "~/local/share/renv/cache/v5/R-4.0/x86_64-pc-linux-gnu"
```