Validation

1 Validation Testing: mrgCompare v0.10.0

1.1 Scope

The purpose of this Validation Testing document is to define the conditions for test execution.

1.2 Test candidate

Showing md5 checksum

```
#>    ../../pmforest_0.0.0.9000.tar.gz
#> "a8e2c2fe39f65c687a850b218bb61342"

#> Installing pmforest [0.0.0.9000] ...
#>  OK [built from source]
```

1.3 Run tests

Tests specified in the Requirements Specification-Validation Plan document are executed using the `run_test()` function, which calls `testthat::test_dir`.

1.3.1 tests

```
#> == Warnings ============================================================
#> -- Warning (test-base-plot.R:31:5): Base plots: Test metagroup (Cl and V2) [PMF-PLOT-004] --
#> Adding new file snapshot: '_snaps/base-plot/test-metagroup.svg'
#> -- Warning (test-base-plot.R:43:5): Base plots: Test metagroup (Cl and V2) [PMF-PLOT-004] --
#> Adding new file snapshot: '_snaps/base-plot/test-metagroup-with-nrow.svg'
#> -- Warning (test-base-plot.R:61:5): Base plots: Test metagroup (Cl and V2) with labels [PMF-PLOT-005]
#> Adding new file snapshot: '_snaps/base-plot/test-metagroup-with-labels.svg'
#> -- Warning (test-base-plot.R:76:5): Base plots: CI Table - mean [PMF-PLOT-006] --
#> Adding new file snapshot: '_snaps/base-plot/ci-table-mean.svg'
#> -- Warning (test-base-plot.R:91:5): Base plots: CI Table - median [PMF-PLOT-007] --
#> Adding new file snapshot: '_snaps/base-plot/ci-table-median.svg'
#> -- Warning (test-base-plot.R:106:5): Base plots: Plot/Table width [PMF-PLOT-008] --
#> Adding new file snapshot: '_snaps/base-plot/plot-table-width.svg'
#> -- Warning (test-base-plot.R:121:5): Base plots: Vertical Intercept [PMF-PLOT-009] --
#> Adding new file snapshot: '_snaps/base-plot/vertical-intercept.svg'
#> -- Warning (test-base-plot.R:135:5): Base plots: shaded interval displays over correct range [PMF-PL(
#> Adding new file snapshot: '_snaps/base-plot/shaded-interval.svg'
#> -- Warning (test-base-plot.R:148:5): Base plots: update labels via yaml file [PMF-PLOT-011] --
#> Adding new file snapshot: '_snaps/base-plot/update-labels-via-yaml-file.svg'
#> -- Warning (test-base-plot.R:164:5): Base plots: Axis labels and captions [PMF-PLOT-014] --
#> Adding new file snapshot: '_snaps/base-plot/axis-labels-and-captions.svg'
#> -- Warning (test-base-plot.R:179:5): Base plots: Test breaks and limits of x-axis [PMF-PLOT-015] --
#> Adding new file snapshot: '_snaps/base-plot/test-breaks-and-limits-of-x-axis.svg'
```

```
#> -- Warning (test-base-plot.R:194:5): Base plots: Modify text size [PMF-PLOT-016] --
#> Adding new file snapshot: '_snaps/base-plot/modify-text-size.svg'
#> -- Warning (test-base-plot.R:206:5): Base plots: Base plot [PMF-PLOT-0017] -----
#> Adding new file snapshot: '_snaps/base-plot/base-plot.svg'
#> -- Warning (test-base-plot.R:231:5): Base plots: Full Test [PMF-PLOT-0018] -----
#> Adding new file snapshot: '_snaps/base-plot/full-test.svg'
#> -- Warning (test-nsim-plot.R:37:5): Multiple simulations: Multiple simulations base test [PMF-PLOT-0
#> Adding new file snapshot: '_snaps/nsim-plot/multiple-simulations.svg'
#> -- Warning (test-nsim-plot.R:64:5): Multiple simulations: Multiple CI's with jitter [PMF-PLOT-013] --
#> Adding new file snapshot: '_snaps/nsim-plot/multiple-ci-s-with-jitter.svg'
#>
#> [ FAIL 0 | WARN 16 | SKIP 0 | PASS 21 ]
```

1.4 Summary

Summarizes the number of contexts, tests, and expectations and counts number of tests and test failures.

```
#> # A tibble: 1 x 4
#>   contexts tests number failed
#>      <int> <int>  <int>  <int>
#> 1        1    18     37      0
```

1.5 Session

Testing session information is captured.

```
#> - Session info ----------------------------------------------------------------
#>   setting  value
#>   version  R version 4.1.1 (2021-08-10)
#>   os       Ubuntu 18.04.5 LTS
#>   system   x86_64, linux-gnu
#>   ui       X11
#>   language (EN)
#>   collate  en_US.UTF-8
#>   ctype    en_US.UTF-8
#>   tz       America/New_York
#>   date     2022-01-27
#>
#> - Packages --------------------------------------------------------------------
#>   package     * version  date       lib source
#>   abind         1.4-5    2016-07-21 [2] CRAN (R 4.1.0)
#>   archive       1.0.2    2021-07-16 [2] CRAN (R 4.1.0)
#>   assertthat    0.2.1    2019-03-21 [2] CRAN (R 4.1.0)
#>   backports     1.2.1    2020-12-09 [2] CRAN (R 4.1.0)
#>   bit           4.0.4    2020-08-04 [2] CRAN (R 4.1.0)
#>   bit64         4.0.5    2020-08-30 [2] CRAN (R 4.1.0)
#>   broom         0.7.8    2021-06-24 [2] CRAN (R 4.1.0)
#>   cachem        1.0.5    2021-05-15 [2] CRAN (R 4.1.0)
#>   callr         3.7.0    2021-04-20 [2] CRAN (R 4.1.0)
#>   car           3.0-11   2021-06-27 [2] CRAN (R 4.1.0)
#>   carData       3.0-4    2020-05-22 [2] CRAN (R 4.1.0)
#>   cellranger    1.1.0    2016-07-27 [2] CRAN (R 4.1.0)
#>   cli           3.0.1    2021-07-17 [2] CRAN (R 4.1.0)
#>   colorspace    2.0-2    2021-06-24 [2] CRAN (R 4.1.0)
#>   cowplot       1.1.1    2020-12-30 [2] CRAN (R 4.1.0)
```

```
#>   crayon        1.4.1        2021-02-08 [2] CRAN (R 4.1.0)
#>   curl          4.3.2        2021-06-23 [2] CRAN (R 4.1.0)
#>   data.table    1.14.0       2021-02-21 [2] CRAN (R 4.1.0)
#>   DBI           1.1.1        2021-01-15 [2] CRAN (R 4.1.0)
#>   desc          1.3.0        2021-03-05 [2] CRAN (R 4.1.0)
#>   devtools      2.4.2        2021-06-07 [2] CRAN (R 4.1.0)
#>   digest        0.6.27       2020-10-24 [2] CRAN (R 4.1.0)
#>   dplyr       * 1.0.7        2021-06-18 [2] CRAN (R 4.1.0)
#>   ellipsis      0.3.2        2021-04-29 [2] CRAN (R 4.1.0)
#>   evaluate      0.14         2019-05-28 [2] CRAN (R 4.1.0)
#>   fansi         0.5.0        2021-05-25 [2] CRAN (R 4.1.0)
#>   farver        2.1.0        2021-02-28 [2] CRAN (R 4.1.0)
#>   fastmap       1.1.0        2021-01-25 [2] CRAN (R 4.1.0)
#>   forcats       0.5.1        2021-01-27 [2] CRAN (R 4.1.0)
#>   foreign       0.8-81       2020-12-22 [2] CRAN (R 4.1.0)
#>   fs            1.5.0        2020-07-31 [2] CRAN (R 4.1.0)
#>   generics      0.1.0        2020-10-31 [2] CRAN (R 4.1.0)
#>   ggplot2       3.3.5        2021-06-25 [2] CRAN (R 4.1.0)
#>   ggpubr        0.4.0        2020-06-27 [2] CRAN (R 4.1.0)
#>   ggsignif      0.6.2        2021-06-14 [2] CRAN (R 4.1.0)
#>   glue          1.4.2        2020-08-27 [2] CRAN (R 4.1.0)
#>   gridExtra     2.3          2017-09-09 [2] CRAN (R 4.1.0)
#>   gtable        0.3.0        2019-03-25 [2] CRAN (R 4.1.0)
#>   haven         2.4.1        2021-04-23 [2] CRAN (R 4.1.0)
#>   here          1.0.1        2020-12-13 [2] CRAN (R 4.1.0)
#>   hms           1.1.0        2021-05-17 [2] CRAN (R 4.1.0)
#>   htmltools     0.5.1.1      2021-01-22 [2] CRAN (R 4.1.0)
#>   knitr         1.33         2021-04-24 [2] CRAN (R 4.1.0)
#>   labeling      0.4.2        2020-10-20 [2] CRAN (R 4.1.0)
#>   lifecycle     1.0.0        2021-02-15 [2] CRAN (R 4.1.0)
#>   magrittr      2.0.1        2020-11-17 [2] CRAN (R 4.1.0)
#>   memoise       2.0.0        2021-01-26 [2] CRAN (R 4.1.0)
#>   munsell       0.5.0        2018-06-12 [2] CRAN (R 4.1.0)
#>   openxlsx      4.2.4        2021-06-16 [2] CRAN (R 4.1.0)
#>   patchwork     1.1.1        2020-12-17 [2] CRAN (R 4.1.0)
#>   pillar        1.6.1        2021-05-16 [2] CRAN (R 4.1.0)
#>   pkgbuild      1.2.0        2020-12-15 [2] CRAN (R 4.1.0)
#>   pkgconfig     2.0.3        2019-09-22 [2] CRAN (R 4.1.0)
#>   pkgload       1.2.1        2021-04-06 [2] CRAN (R 4.1.0)
#>   pmforest    * 0.0.0.9000   2022-01-27 [1] local
#>   pmtables      0.3.3        2021-07-23 [2] MPNDEV (R 4.1.0)
#>   prettyunits   1.1.1        2020-01-24 [2] CRAN (R 4.1.0)
#>   processx      3.5.2        2021-04-30 [2] CRAN (R 4.1.0)
#>   ps            1.6.0        2021-02-28 [2] CRAN (R 4.1.0)
#>   purrr         0.3.4        2020-04-17 [2] CRAN (R 4.1.0)
#>   R6            2.5.0        2020-10-28 [2] CRAN (R 4.1.0)
#>   RColorBrewer  1.1-2        2014-12-07 [2] CRAN (R 4.1.0)
#>   Rcpp          1.0.7        2021-07-07 [2] CRAN (R 4.1.0)
#>   readr       * 2.0.0        2021-07-20 [2] CRAN (R 4.1.0)
#>   readxl        1.3.1        2019-03-13 [2] CRAN (R 4.1.0)
#>   remotes       2.4.0        2021-06-02 [2] CRAN (R 4.1.0)
#>   renv          0.14.0       2021-07-21 [2] CRAN (R 4.1.0)
#>   rio           0.5.27       2021-06-21 [2] CRAN (R 4.1.0)
#>   rlang         0.4.11       2021-04-30 [2] CRAN (R 4.1.0)
```

```
#>   rmarkdown     2.9       2021-06-15 [2] CRAN (R 4.1.0)
#>   rprojroot     2.0.2     2020-11-15 [2] CRAN (R 4.1.0)
#>   rstatix       0.7.0     2021-02-13 [2] CRAN (R 4.1.0)
#>   rstudioapi    0.13      2020-11-12 [2] CRAN (R 4.1.0)
#>   scales        1.1.1     2020-05-11 [2] CRAN (R 4.1.0)
#>   sessioninfo   1.1.1     2018-11-05 [2] CRAN (R 4.1.0)
#>   stringi       1.7.3     2021-07-16 [2] CRAN (R 4.1.0)
#>   stringr       1.4.0     2019-02-10 [2] CRAN (R 4.1.0)
#>   testthat    * 3.0.4     2021-07-01 [2] CRAN (R 4.1.0)
#>   tibble        3.1.3     2021-07-23 [2] CRAN (R 4.1.0)
#>   tidyr         1.1.3     2021-03-03 [2] CRAN (R 4.1.0)
#>   tidyselect    1.1.1     2021-04-30 [2] CRAN (R 4.1.0)
#>   tzdb          0.1.2     2021-07-20 [2] CRAN (R 4.1.0)
#>   usethis       2.0.1     2021-02-10 [2] CRAN (R 4.1.0)
#>   utf8          1.2.1     2021-03-12 [2] CRAN (R 4.1.0)
#>   vctrs         0.3.8     2021-04-29 [2] CRAN (R 4.1.0)
#>   vdiffr      * 1.0.2     2021-06-18 [2] CRAN (R 4.1.0)
#>   vroom         1.5.3     2021-07-14 [2] CRAN (R 4.1.0)
#>   waldo         0.2.5     2021-03-08 [2] CRAN (R 4.1.0)
#>   withr         2.4.2     2021-04-18 [2] CRAN (R 4.1.0)
#>   xfun          0.24      2021-06-15 [2] CRAN (R 4.1.0)
#>   xtable        1.8-4     2019-04-21 [2] CRAN (R 4.1.0)
#>   yaml          2.2.1     2020-02-01 [2] CRAN (R 4.1.0)
#>   yspec         0.5.0     2021-07-23 [2] MPNDEV (R 4.1.0)
#>   zip           2.2.0     2021-05-31 [2] CRAN (R 4.1.0)
#>
#> [1] /data/home/barrettk/R/x86_64-pc-linux-gnu-library/4.1
#> [2] /opt/rpkgs/4.1
#> [3] /opt/R/4.1.1/lib/R/library
```