

Package: shiny.benchmark (via r-universe)

September 15, 2024

Title Benchmark the Performance of 'shiny' Applications

Version 0.1.1

Description Compare performance between different versions of a 'shiny' application based on 'git' references.

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URL <https://github.com/Appsilon/shiny.benchmark>,
<https://github.com/Appsilon/shiny.benchmark>

BugReports <https://github.com/Appsilon/shiny.benchmark/issues>

SystemRequirements yarn 1.22.17 or higher, Node 12 or higher

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

Depends R (>= 3.1.0)

Suggests covr, knitr, lintr, rcmdcheck, rmarkdown, mockr, spelling

Imports dplyr, ggplot2, glue, jsonlite, methods, progress, renv,
shinytest2, stringr, testthat, fs

Language en-US

Repository <https://appsilon.r-universe.dev>

RemoteUrl <https://github.com/appsilon/shiny.benchmark>

RemoteRef HEAD

RemoteSha 341f87f0a7ae7462854453b7b08fd9e8845688ee

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benchmark	<i>Execute performance tests for a list of commits</i>
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Description

Execute performance tests for a list of commits

Usage

```
benchmark(
  commit_list,
  cypress_dir = NULL,
  shinytest2_dir = NULL,
  tests_pattern = NULL,
  app_dir = getwd(),
  port = 3333,
  use_renv = TRUE,
  renv_prompt = TRUE,
  n_rep = 1,
  debug = FALSE
)
```

Arguments

commit_list	A list of commit hash codes, branches' names or anything else you can use with git checkout ...
cypress_dir	The directory with tests recorded by Cypress. It can also be a vector of the same size of commit_list
shinytest2_dir	The directory with tests recorded by shinytest2 It can also be a vector of the same size of commit_list
tests_pattern	Cypress/shinytest2 files pattern. E.g. 'performance' It can also be a vector of the same size of commit_list. If it is NULL, all the content in cypress_dir/shinytest2_dir will be used
app_dir	The path to the application root
port	Port to run the app
use_renv	In case it is set as TRUE, package will try to apply renv::restore() in all branches. Otherwise, the current loaded list of packages will be used in all branches.

renv_prompt	Prompt the user before taking any action?
n_rep	Number of replications desired
debug	Logical. TRUE to display all the system messages on runtime

Value

Return a shiny_benchmark object containing the benchmark call, elapsed time and a list with the collected performance times

benchmark_cypress *Run the performance test based on multiple commits using Cypress*

Description

Run the performance test based on multiple commits using Cypress

Usage

```
benchmark_cypress(
  commit_list,
  cypress_dir,
  tests_pattern,
  app_dir,
  port,
  use_renv,
  renv_prompt,
  n_rep,
  debug
)
```

Arguments

commit_list	A list of commit hash codes, branches' names or anything else you can use with git checkout ...
cypress_dir	The directory with tests recorded by Cypress. It can also be a vector of the same size of commit_list
tests_pattern	Cypress/shinytest2 files pattern. E.g. 'shinytest2' It can also be a vector of the same size of commit_list. If it is NULL, all the content in cypress_dir/shinytest2_dir will be used
app_dir	The path to the application root
port	Port to run the app
use_renv	In case it is set as TRUE, package will try to apply renv::restore() in all branches. Otherwise, the current loaded list of packages will be used in all branches.
renv_prompt	Prompt the user before taking any action?
n_rep	Number of replications desired
debug	Logical. TRUE to display all the system messages on runtime

Value

Return a list with the collected performance times

benchmark_shinytest2 *Run the performance test based on a multiple commits using shinytest2*

Description

Run the performance test based on a multiple commits using shinytest2

Usage

```
benchmark_shinytest2(
  commit_list,
  shinytest2_dir,
  tests_pattern,
  app_dir,
  use_renv,
  renv_prompt,
  n_rep,
  debug
)
```

Arguments

commit_list	A list of commit hash codes, branches' names or anything else you can use with git checkout ...
shinytest2_dir	The directory with tests recorded by shinytest2 It can also be a vector of the same size of commit_list
tests_pattern	shinytest2 files pattern. E.g. 'performance' It can also be a vector of the same size of commit_list. If it is NULL, all the content in cypress_dir/shinytest2_dir will be used
app_dir	The path to the application root
use_renv	In case it is set as TRUE, package will try to apply renv::restore() in all branches. Otherwise, the current loaded list of packages will be used in all branches.
renv_prompt	Prompt the user before taking any action?
n_rep	Number of replications desired
debug	Logical. TRUE to display all the system messages on runtime

Value

Return a list with the collected performance times

load_example	<i>Load an application and instructions to run shiny.benchmark</i>
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Description

This function aims to generate a template to be used by shiny.benchmark. It will create the necessary structure on path with some examples of tests using Cypress and shinytest2. Also, a simple application will be added to the folder as well as instructions on how to perform the performance checks. Be aware that a new git repo is need in the selected path.

Usage

```
load_example(path, force = FALSE)
```

Arguments

path	A character vector of full path name
force	Create example even if directory does not exist or is not empty

Value

Print on the console instructions to run the example

Examples

```
load_example(file.path(tempdir(), "example_destination"), force = TRUE)
```

plot.shiny_benchmark	<i>Plot for shiny_benchmark class</i>
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Description

Plot for shiny_benchmark class

Usage

```
## S3 method for class 'shiny_benchmark'
plot(x, ...)
```

Arguments

x	shiny_benchmark object
...	Other parameters

Value

Return a ggplot object that compares different git refs

print.shiny_benchmark *Print for shiny_benchmark class*

Description

Print for shiny_benchmark class

Usage

```
## S3 method for class 'shiny_benchmark'  
print(x, ...)
```

Arguments

x	shiny_benchmark object
...	Other parameters

Value

Print on the console information about the shiny_benchmark object

run_cypress_ptest *Run the performance test based on a single commit using Cypress*

Description

Run the performance test based on a single commit using Cypress

Usage

```
run_cypress_ptest(  
  commit,  
  project_path,  
  cypress_dir,  
  tests_pattern,  
  use_renv,  
  renv_prompt,  
  n_rep,  
  debug  
)
```

Arguments

commit	A commit hash code or a branch's name
project_path	The path to the project with all needed packages installed
cypress_dir	The directory with tests recorded by Cypress
tests_pattern	Cypress files pattern. E.g. 'performance'. If it is NULL, all the content will be used
use_renv	In case it is set as TRUE, package will try to apply renv::restore() in all branches. Otherwise, the current loaded list of packages will be used in all branches.
renv_prompt	Prompt the user before taking any action?
n_rep	Number of replications desired
debug	Logical. TRUE to display all the system messages on runtime

Value

Return a data.frame with the collected performance time

run_shinytest2_ptest *Run the performance test based on a single commit using shinytest2*

Description

Run the performance test based on a single commit using shinytest2

Usage

```
run_shinytest2_ptest(
  commit,
  project_path,
  app_dir,
  shinytest2_dir,
  tests_pattern,
  use_renv,
  renv_prompt,
  n_rep,
  debug
)
```

Arguments

commit	A commit hash code or a branch's name
project_path	The path to the project
app_dir	The path to the application root
shinytest2_dir	The directory with tests recorded by shinytest2

tests_pattern	shinytest2 files pattern. E.g. 'performance'. If it is NULL, all the content will be used
use_renv	In case it is set as TRUE, package will try to apply renv::restore() in all branches. Otherwise, the current loaded list of packages will be used in all branches.
renv_prompt	Prompt the user before taking any action?
n_rep	Number of replications desired
debug	Logical. TRUE to display all the system messages on runtime

Value

Return a data.frame with the collected performance time

shiny_benchmark-class *An object of 'shiny_benchmark' class*

Description

An object of 'shiny_benchmark' class

Slots

call Function call
time Time elapsed
performance List of measurements (one entry for each commit)

summary.shiny_benchmark
Summary for shiny_benchmark class

Description

Summary for shiny_benchmark class

Usage

```
## S3 method for class 'shiny_benchmark'
summary(object, ...)
```

Arguments

object shiny_benchmark object
... Other parameters

Value

Return a data.frame with performance tests' summary statistics

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