

# Package: scSpotlight (via r-universe)

October 27, 2026

**Title** A Single Cell Analysis Shiny App

**Version** 0.0.5

**Description** A single cell analysis (viewer) app based on Seurat.

**License** Apache License (>= 2)

**Depends** R (>= 4.1.0), Seurat (>= 5.0.1), SeuratObject (>= 5.0.1),  
shiny (>= 1.7.4)

**Imports** bsicons, bslib (>= 0.5.1), config (>= 0.3.2), dplyr, DT,  
future, ggplot2, golem (>= 0.4.1), htmltools, magrittr, plotly,  
promises, readr, readxl, RhpcBLASctl, rlang, scales,  
shinycssloaders, shinyjs, shinyWidgets, stringr, tibble, waiter

**Suggests** presto, BPCells

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.3.1

**Roxygen** list(markdown = TRUE)

**URL** <https://obenno.github.io/scSpotlight/>,  
<https://github.com/obenno/scSpotlight>

**BugReports** <https://github.com/obenno/scSpotlight/issues>

**Additional\_repositories** <https://satijalab.r-universe.dev>,  
<https://bnprks.r-universe.dev>

**Config/pak/sysreqs** cmake libglpk-dev make libicu-dev libpng-dev libuv1-dev libxml2-dev libssl-  
dev python3 libx11-dev zlib1g-dev

**Repository** <https://obenno.r-universe.dev>

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**RemoteRef** v0.0.5

**RemoteSha** ee7e3f86831959c4ed24bce6a2e4a5f78d54c02c

Contents

run\_app . . . . . 2

**Index** 4

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|         |                                |
|---------|--------------------------------|
| run_app | <i>Run the scSpotlight App</i> |
|---------|--------------------------------|

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Description

Run the scSpotlight App

Usage

```
run_app(  
  onStart = set_options,  
  options = list(),  
  enableBookmarking = NULL,  
  uiPattern = "/",  
  dataDir = NULL,  
  runningMode = "processing",  
  maxSize = 20 * 1000 * 1024^2,  
  nCores = 2,  
  ...  
)
```

Arguments

|                   |                                                                                                                                                                                                                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| onStart           | A function that will be called before the app is actually run. This is only needed for shinyAppObj, since in the shinyAppDir case, a global .R file can be used for this purpose.                                                                                                                                   |
| options           | Named options that should be passed to the runApp call (these can be any of the following: "port", "launch.browser", "host", "quiet", "display.mode" and "test.mode"). You can also specify width and height parameters which provide a hint to the embedding environment about the ideal height/width for the app. |
| enableBookmarking | Can be one of "url", "server", or "disable". The default value, NULL, will respect the setting from any previous calls to <a href="#">enableBookmarking()</a> . See <a href="#">enableBookmarking()</a> for more information on bookmarking your app.                                                               |
| uiPattern         | A regular expression that will be applied to each GET request to determine whether the ui should be used to handle the request. Note that the entire request path must match the regular expression in order for the match to be considered successful.                                                             |
| dataDir           | Direcotry path of the input data, user could put the large dataset in the direcoty to avoid uploading files                                                                                                                                                                                                         |

|             |                                                                                                                                                                                                                                                                             |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| runningMode | The running mode of the app. This could be "processing" (default) or "viewer". The "processing" mode allows users to process input data by Seurat package while in "viewer" mode, user will only be able to view the dimension reduction result and query gene expressions. |
| maxSize     | Maximum allowed total size (in bytes) of global variables identified, see <code>future.globals.maxSize</code> .                                                                                                                                                             |
| nCores      | Number of the threads to use (by <code>future::plan()</code> ).                                                                                                                                                                                                             |
| ...         | arguments to pass to <code>golem_opts</code> . See <code>?golem::get_golem_options</code> for more details.                                                                                                                                                                 |

## Examples

```
## Not run:
## Run app in processing mode
run_app()

## Run app in viewer mode and load data in dataDir
run_app(runningMode = "viewer", dataDir = "/path/to/data")

## Run app on port 8081, shiny::runApp() options need to be wrapped in a list
run_app(options = list(port = 8081, host = "0.0.0.0", launch.browser = FALSE), runningMode = "processing")

## End(Not run)
```

# Index

`enableBookmarking()`, [2](#)

`future::plan()`, [3](#)

`run_app`, [2](#)