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May 26, 2017

Take screenshots of web pages from R

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sourcetools	Rename to	ools/ to sourcetools/		Mar 16, 2017
tools	Move REA	DME images to tools/		Mar 16, 2017
vignettes	Fixes so th	at R CMD check doesn't leave beh	nind extra temp dir	Sep 25, 2017
Rbuildignore	Rename to	ools/ to sourcetools/		Mar 16, 2017
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.travis.yml	Check with	multiple versions of R on travis		Dec 27, 2016
■ DESCRIPTION Add b		`appshot.shiny.appobj` functionalit	y (#55)	Feb 28, 2018
NAMESPACE	Add suppo	rt for Rmd files		Nov 29, 2017
NEWS.md	Add basic	`appshot.shiny.appobj` functionalit	Feb 28, 2018	
README.Rmd	Add suppo	rt for Rmd files	Nov 29, 2017	
README.md	Add suppo	rt for Rmd files	Nov 29, 2017	
appveyor.yml	Use Appve	yor		Sep 22, 2016

Webshot makes it easy to take screenshots of web pages from R. It can also:

webshot

webshot.Rproj

README.md

Run Shiny applications locally and take screenshots of the application. • Render R Markdown documents and take screenshots of the document. Webshot can handle both static Rmd documents

even the portion outside the viewport.

You can clip it to just the viewport region:

build passing op build passing

and interactive ones (those with runtime: shiny).

Update Rproj file

- Installation

Webshot can be installed from CRAN. Webshot also requires the external program PhantomJS. You may either download

PhantomJS from its website, or use the function webshot::install_phantomjs() to install it automatically.

install.packages("webshot") webshot::install_phantomjs()

Usage By default, webshot will use a 992x744 pixel viewport (a virtual browser window) and take a screenshot of the entire page,

```
library(webshot)
webshot("https://www.r-project.org/", "r.png")
webshot("https://www.r-project.org/", "r.pdf") # Can also output to PDF
```

```
You can also get screenshots of a portion of a web page using CSS selectors. If there are multiple matches for the CSS
selector, it will use the first match.
```

If you supply multiple CSS selectors, it will take a screenshot containing all of the selected items.

```
webshot("https://www.r-project.org/", "r-selectors.png",
        selector = c("#getting-started", "#news"))
```

webshot("https://www.r-project.org/", "r-expand.png",

The clipping rectangle can be expanded to capture some area outside the selected items:

selector = "#getting-started",

Take a screenshot of different sites

webshot("https://www.r-project.org/", "r-viewport.png", cliprect = "viewport")

webshot("https://www.r-project.org/", "r-sidebar.png", selector = ".sidebar")

```
expand = c(40, 20, 40, 20))
You can take higher-resolution screenshots with the zoom option. This isn't exactly the same as taking a screenshot with a
HiDPI ("Retina") device: it is like increasing the zoom to 200% in a desktop browser and doubling the height and width of the
browser window. This differs from using a HiDPI device because some web pages load different, higher-resolution images
```

webshot("https://www.r-project.org/", "r-sidebar-zoom.png", selector = ".sidebar", zoom = 2) **Vectorization**

when they know they will be displayed on a HiDPI device (but using zoom will not report that there is a HiDPI device).

```
All parameters of function webshot. That means that multiple screenshots can be taken with a single command. When taking
a lot of screenshots, vectorization can divide by 5 the execution time.
```

webshot(c("https://www.r-project.org/", "https://github.com/wch/webshot"), file = c("r.png", "webshot.png"))

Save screenshots of the same site in different formats webshot("https://www.r-project.org/", file = c("r.png", "r.pdf"))

```
# Take screenshots of different sections of the same site.
  # Note that unlike arguments "url" and "file", a list is required to specify
  # multiple selectors. This is also the case for arguments "cliprect" and
  # "expand"
  webshot("http://rstudio.github.io/leaflet/",
          file = c("leaflet_features.png", "leaflet_install.png"),
          selector = list("#features", "#installation"))
Screenshots of Shiny applications
The appshot() function will run a Shiny app locally in a separate R process, and take a screenshot of it. After taking the
screenshot, it will kill the R process that is running the Shiny app.
  # Get the directory of one of the Shiny examples
```

Screenshots of R Markdown documents

rmdshot("document.rmd", "document.png")

Can specify pixel dimensions for resize()

Board

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webshot("https://www.r-project.org/", "r-small.png") %>%

. R version 3.2.5 (Very, Very Secure Dishes) has been released on

appshot(appdir, "01_hello.png")

appdir <- system.file("examples", "01_hello", package="shiny")</pre>

The rmdshot() function takes screenshots of R Markdown documents. For static R Markdown documents, it renders them to HTML in a temporary directory (using rmarkdown::render()) and then takes a screenshot.

For dynamic R Markdown documents, it runs them using rmarkdown::run() in a separate R process and then takes a

screenshot. After taking the screenshot, it will kill the R process that is running the document.

Manipulating images If you have GraphicsMagick (recommended) or ImageMagick installed, you can pass the result to resize() to resize the

image after taking the screenshot. This can take any valid ImageMagick geometry specifictaion, like "75%", or "400x" (for

```
an image 400 pixels wide). However, you may get different (and often better) results by using the zoom option: the fonts and
graphical elements will render more sharply. However, compared to simply resizing, zooming out may result in slightly
different positioning of text and layout elements.
```

webshot("https://www.r-project.org/", "r-small-resized.png") %>% resize("75%") %>% shrink() # Using zoom instead of resize() webshot("https://www.r-project.org/", "r-small-zoomed.png", zoom = 0.75) %>% shrink()

```
resize("400x") %>%
shrink()
```

You can also call shrink(), which runs OptiPNG to shrink the PNG file losslessly.

```
To illustrate the difference between resize() and zoom, here is an image with resize("50%"):
                              The R Project for
                              Statistical Computing
                              Getting Started
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                              R is a free software environment for statistical computing and graphics. It
            CRAN
                              compiles and runs on a wide variety of UNIX platforms, Windows and
                              MacOS. To download R, please choose your preferred CRAN mirror.
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                              If you have questions about R like how to download and install the software,
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            Development Site
                              . The R Journal Volume 8/1 is available.
            Conferences
                              . The useRI 2017 conference will take place in Brussels, July 4 - 7, 2017,
            Search
                                and details will be appear here in due course.
            R Foundation

    R version 3.3.1 (Bug in Your Hair) has been released on Tuesday

            Foundation
```

Getting Started Download R is a free software environment for statistical computing and graphics. It CRAN compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. To download R, please choose your preferred CRAN mirror. R Project If you have questions about R like how to download and install the software, or what the license terms are, please read our answers to frequently asked

And here is one with zoom = 0.5. If you look closely, you'll see that the text and graphics are sharper. You'll also see that the

. The R Journal Volume 8/1 is available. Conferences Search . The useR! 2017 conference will take place in Brussels, July 4 - 7, 2017, and details will be appear here in due course. R Foundation R version 3.3.1 (Bug in Your Hair) has been released on Tuesday Foundation R version 3.2.5 (Very, Very Secure Dishes) has been released on

bullet points and text are positioned slightly differently:

questions before you send an email.

News

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