A Package Stew

what have I been working on the past few months? bit.ly/isu_package_stew

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A package stew

Mixture of ingredients:

- vembedr: embed video into R Markdown/Shiny
- bsplus: work with Twitter Bootstrap for Rmd/Shiny
- srlze: help translate things in R to things in text
- screenshotr: a shiny gadget I'm starting to work on
- packages: what I've learned beyond Hadley's book

If you can find a unifying theme, please let me know:)

Helps you embed video into HTML documents:

- YouTube
- Vimeo
- Microsoft Channel 9 (UseR! 2016 videos)

> install.packages("vembedr")

https://ijlyttle.github.io/vembedr

Simplest way to use, grab the URL of the video

```
> embed_url("https://www.youtube.com/watch?v=uV4UpCq2azs")
```

```
> embed_url("https://youtu.be/1-vcEr0PofQ?t=28s")
```

Daily builds of RStudio IDE let you embed iframes in viewer

Get the suggested R code to embed:

```
> suggest_embed("https://www.youtube.com/watch?v=uV4UpCq2azs")
```

```
> suggest_embed("https://youtu.be/1-vcEr0PofQ?t=28s")
```

Fundamental functions:

```
> embed_youtube("1-vcEr0PofQ") %>% use_start_time("28s")
embed_youtube()
embed_vimeo()
embed_user2016()
```

See also: tutor

RStudio tutor package (not yet CRAN)

https://github.com/rstudio/tutor

Use Markdown notation to embed video

So, you want to fit more "stuff" into your Shiny app:

- More inputs, outputs
- More plots, pictures
- More help, documentation

Package to wrap Twitter Bootstrap components:

- Accordion sidebar more room for Shiny apps
- · Carousel more room for plots, images
- Tooltip, popover, modal more documentation

Shiny help-links - integrate extra documentation

- Inspired by Eric Bailey's shinyBS package
- Implemented using the htmltools package
- Nothing depends on server part of shiny, all UI
- Can be used to make rmarkdown HTML documents
- Designed with %>% in mind
- Let's have a look

Accordion sidebar

JOHN LENNON

PAUL MCCARTNEY

GEORGE HARRISON

Lead guitar, vocals

RINGO STARR

```
content_main

title_side

content_side
```

```
bs_accordion_sidebar(id = "beatles") %>%
  bs_append(
    title_side = "John Lennon",
    content_side = "Rhythm guitar, vocals",
    content_main = "Dear Prudence"
   %>%
  bs_append(
    title_side = "Paul McCartney",
    content_side = "Bass guitar, vocals",
    content_main = "Blackbird"
   %>%
  bs_append(
    title_side = "George Harrison",
    content_side = "Lead guitar, vocals",
    content_main = "While My Guitar Gently Weeps"
   %>%
  bs_append(
    title_side = "Ringo Starr",
    content_side = "Drums, vocals",
    content_main = "Don't Pass Me By"
```

Accordion sidebar

JOHN LENNON

PAUL MCCARTNEY

GEORGE HARRISON

Lead guitar, vocals

RINGO STARR

- Create an accordion sidebar
- Append a panel set

While My Guitar Gently Weeps

```
bs_accordion_sidebar(id = "beatles") %>%
  bs_append(
    title_side = "John Lennon",
    content_side = "Rhythm guitar, vocals",
    content_main = "Dear Prudence"
   %>%
  bs_append(
    title_side = "Paul McCartney",
    content_side = "Bass guitar, vocals",
    content_main = "Blackbird"
   %>%
  bs_append(
    title_side = "George Harrison",
    content_side = "Lead guitar, vocals",
    content_main = "While My Guitar Gently Weeps"
   %>%
  bs_append(
    title_side = "Ringo Starr",
    content_side = "Drums, vocals",
    content_main = "Don't Pass Me By"
```

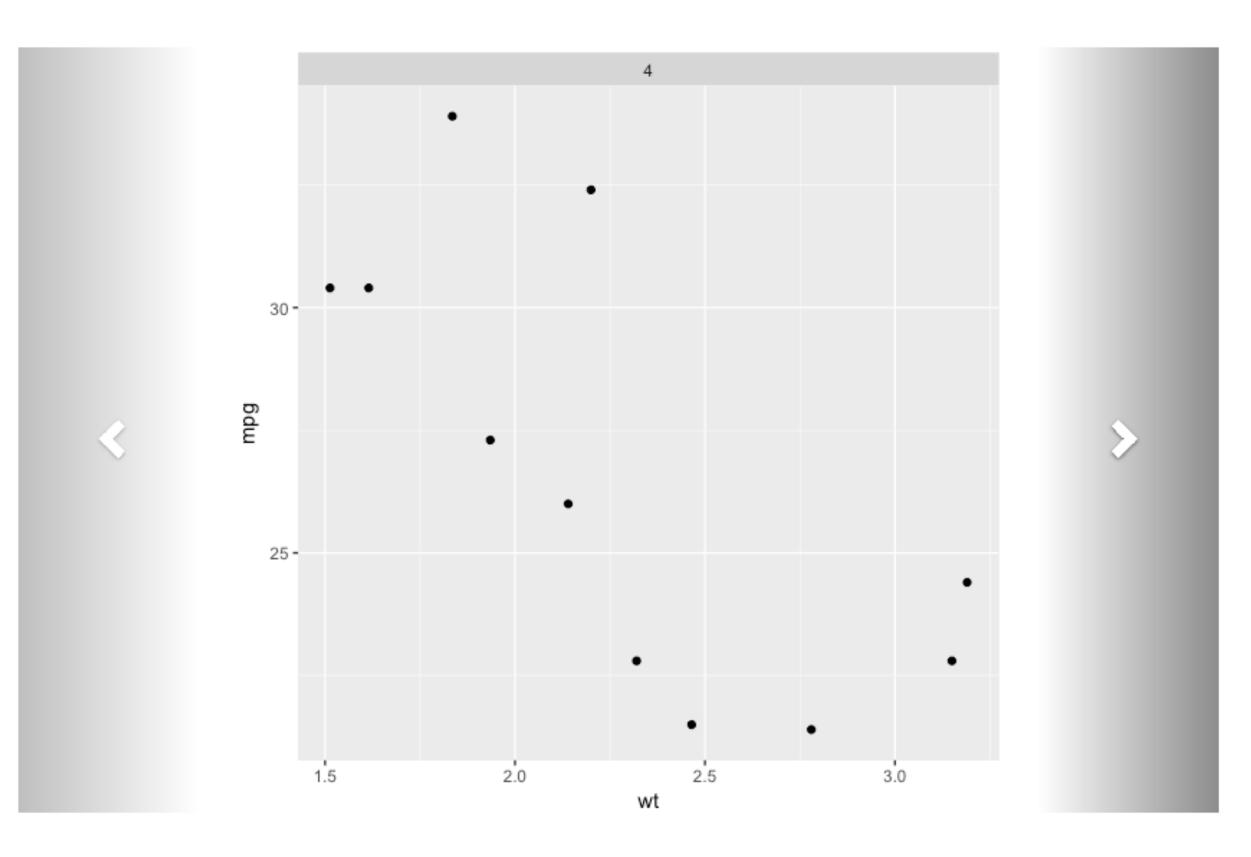
Carousel



```
bs_carousel(id = "with_the_beatles") %>%
bs_append(content = bs_carousel_image(src = "img/john.jpg")) %>%
bs_append(content = bs_carousel_image(src = "img/paul.jpg")) %>%
bs_append(content = bs_carousel_image(src = "img/george.jpg")) %>%
bs_append(content = bs_carousel_image(src = "img/ringo.jpg"))
```

- Create a carousel
- Append a slide

Carousel



MBaby, just use mtcars M

```
bs_carousel(id = "with_the_beatles") %>%
bs_append(content = bs_carousel_image(src = "img/john.jpg")) %>%
bs_append(content = bs_carousel_image(src = "img/paul.jpg")) %>%
bs_append(content = bs_carousel_image(src = "img/george.jpg")) %>%
bs_append(content = bs_carousel_image(src = "img/ringo.jpg"))
```

I'd like to be able to:

- use gganimate
- make images using the frame aesthetic
- present the images in a carousel

without too much headache... (not today)

Tooltip, popover

RHYTHM GUITAR, VOCALS

JOHN LENNON

```
library("htmltools")

tags$button(type = "button", class = "btn btn-default", "John Lennon") %>%
    bs_embed_tooltip(title = "Rhythm Guitar, vocals")
```

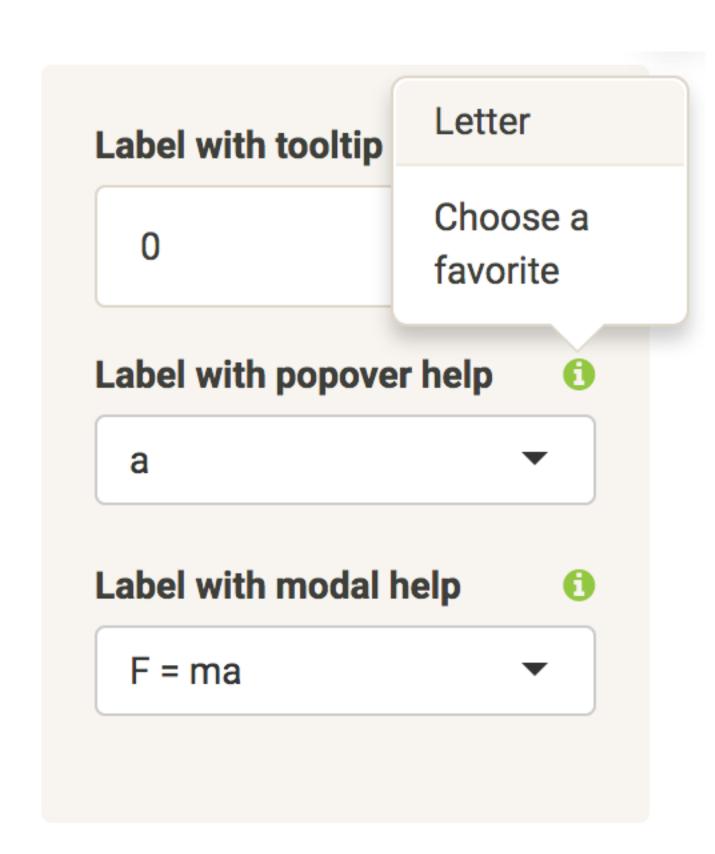
More information

Although he wrote "I Am the Walrus", he later insisted that the Walrus was Paul.

```
JOHN LENNON
```

```
tags$button(type = "button", class = "btn btn-primary", "John Lennon") %>%
bs_embed_popover(
   title = "More information",
   content = "Although he wrote \"I Am the Walrus\",
        he later insisted that the Walrus was Paul."
)
```

Shiny help-links



```
library("shiny")

selectInput(
   inputId = "letter",
   label = "Label with popover help",
   choices = c("a", "b", "c")
) %>%

shinyInput_label_embed(
   shiny_iconlink() %>%
   bs_embed_popover(title = "Letter", content = "Choose a favorite")
)
```

- Create an icon wrapped in a link
- Embed a popover into the link
- Embed the link into the label of a Shiny input

- pkgdown W documentation:
 - https://ijlyttle.github.io/bsplus
- shiny demonstration:
 - https://ijlyttle.shinyapps.io/tooltip_popover_modal
 - https://ijlyttle.shinyapps.io/accordion_sidebar_navbar

packages

- pkgdown:
- r-hub:
- argue with your API:
- roxygen2 release permits markdown in package documentation!