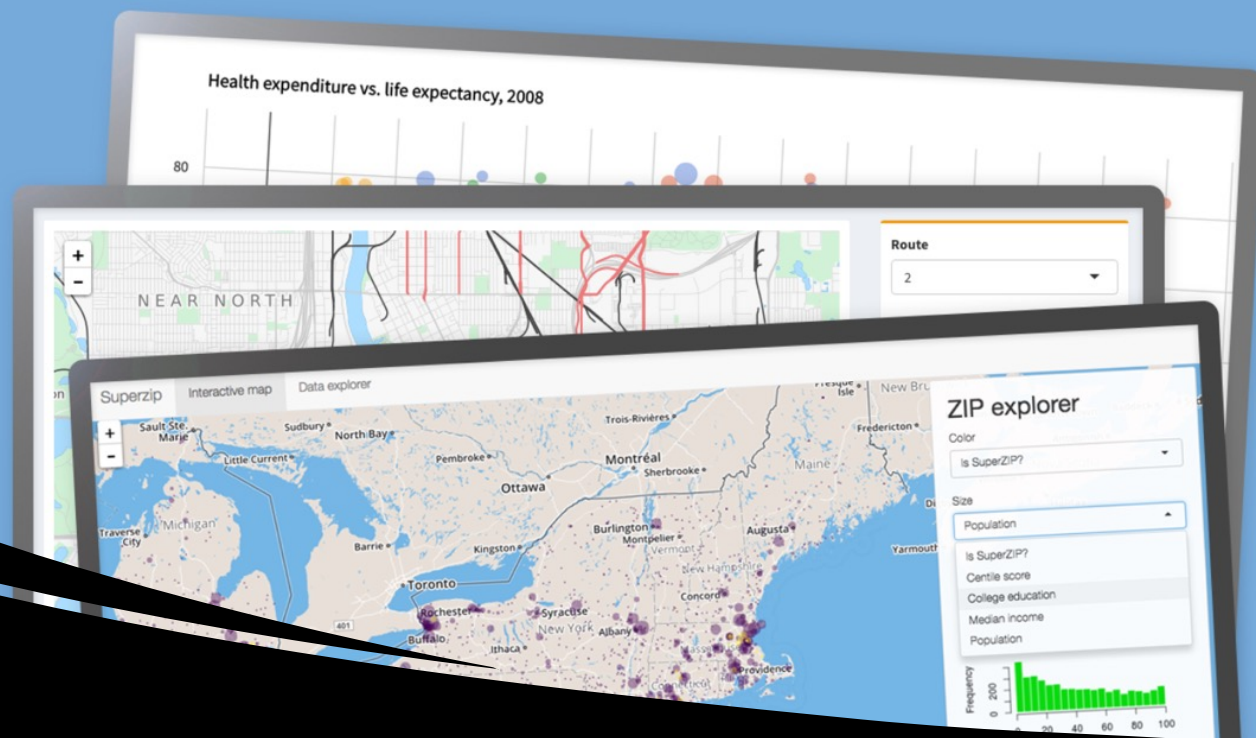


Beyond Basic Shiny: a Survey of R's Not Dull Web Ecosystem

Andrew Borgman
West Michigan R User Group
2022-08-09

Agenda

- What is shiny?
- Summer Reading List
- I sure wish my shiny app...



Interact. Analyze. Communicate.

Take a fresh, interactive approach to telling your data story with Shiny. Let users interact with your data and your analysis. And do it all with R.

What is shiny?

- <https://shiny.rstudio.com>

Summer Reading List

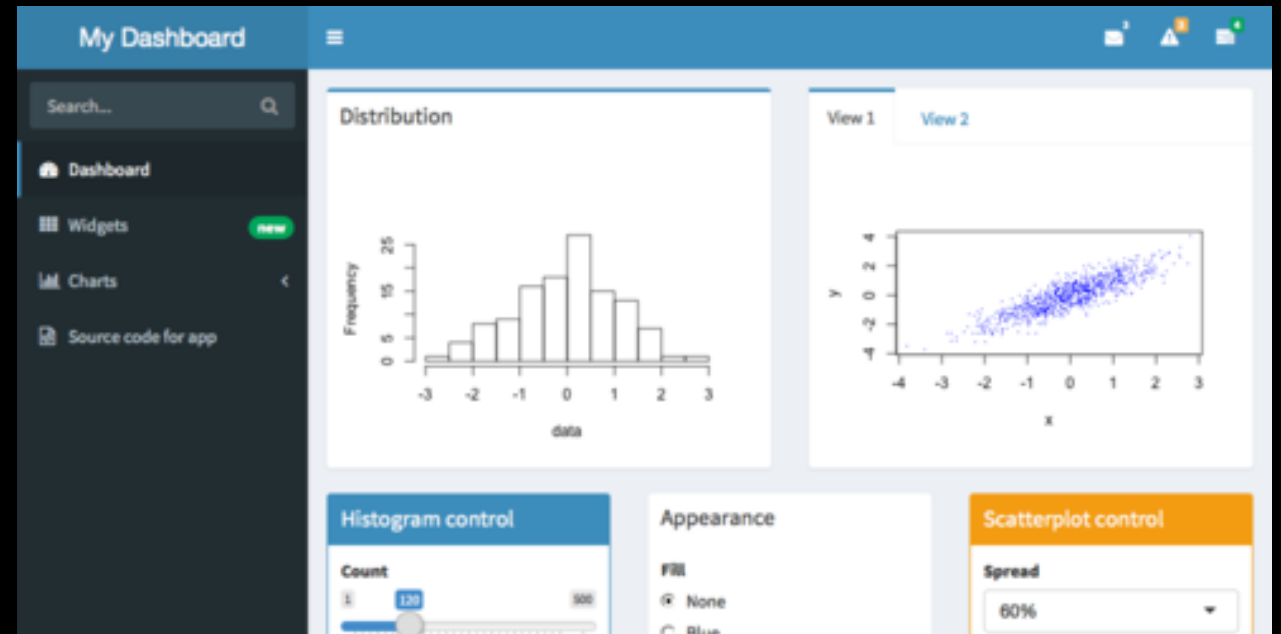
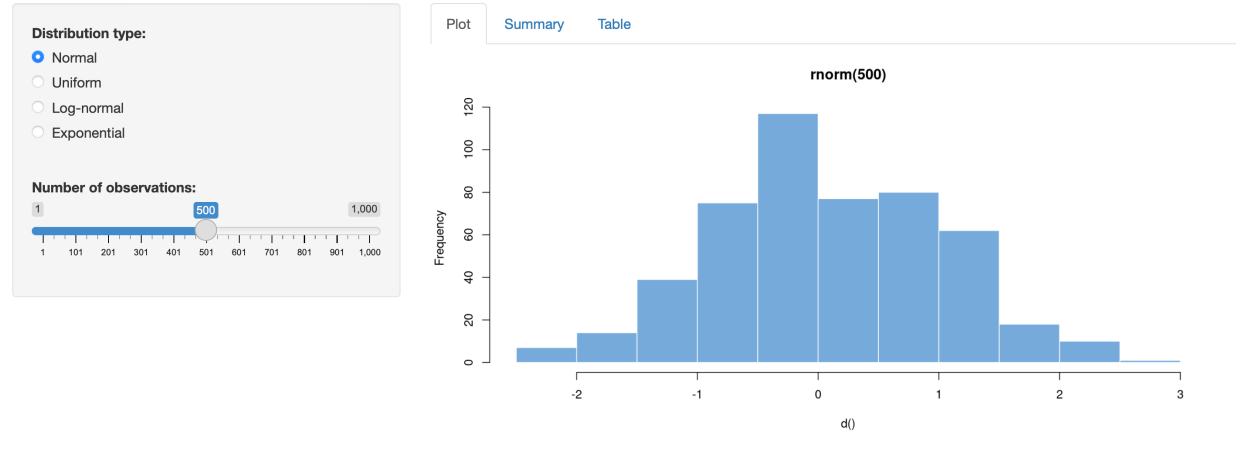
- [Mastering Shiny](#)
- [Engineering Production Grade Shiny Apps](#)
- [JavaScript for R](#)
- [Outstanding User Interfaces with Shiny](#)

I sure wish my shiny app...

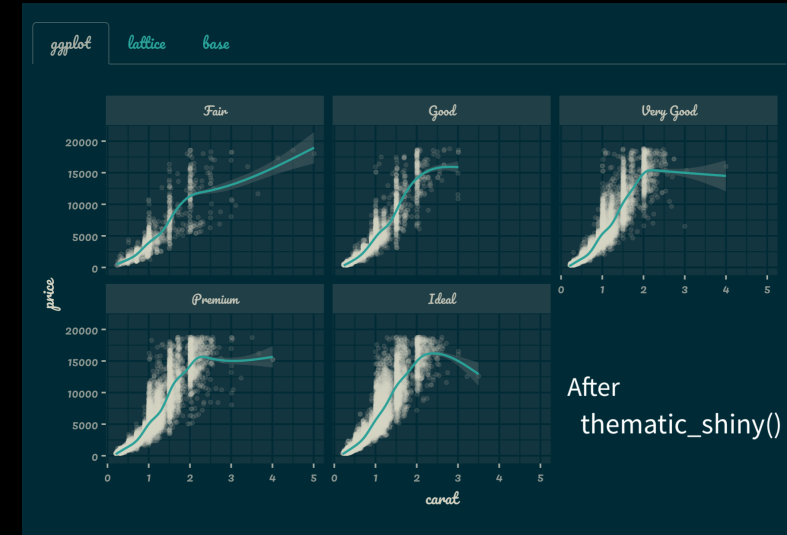
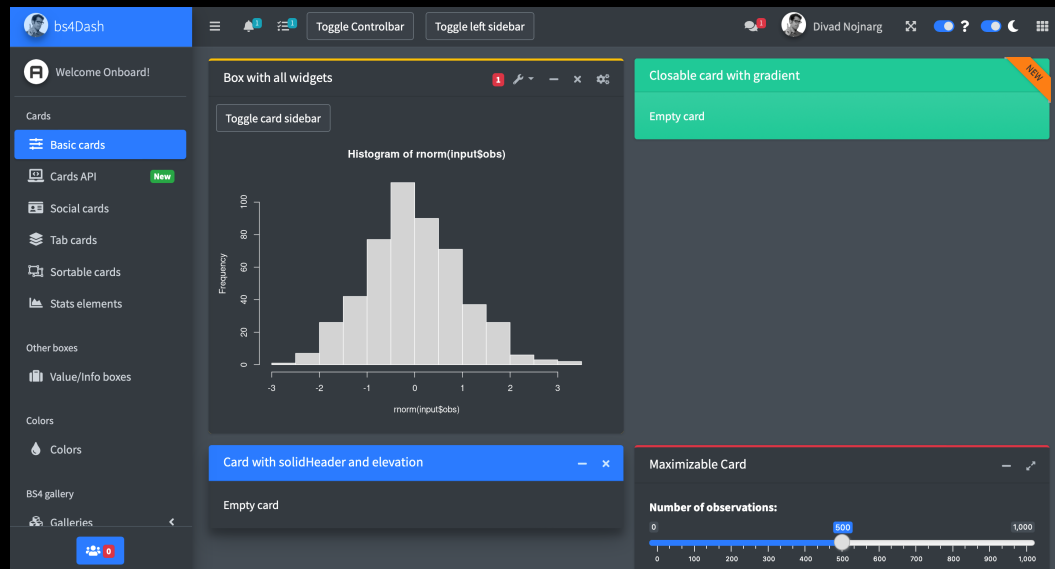
- Looked better

... looked better

Tabsets



... looked better



Theme demo Inputs Plots Tables Notifications Fonts Options

inputPanel() wellPanel()

sliderInput() selectizeInput() selectizeInput(mult=T) dateInput() dateRangeInput()

Below are the values bound to each input widget above

```
List of 5
 $ sliderInput      : int [1:2] 30 70
 $ selectizeInput   : chr "AL"
 $ selectizeMultiInput: chr [1:3] "AK" "AR" "AL"
 $ dateInput        : Date[1:1], format: ...
 $ dateRangeInput   : Date[1:2], format: ...
```

Here are some `actionButton()` s demonstrating different theme (i.e., accent) colors

Primary Secondary (default) Success Info Warning Danger Dark Light

Theme customizer

Main colors

Overall theme

Minty

Changing the overall (Bootstrap) theme may undo other theming changes.

Background (bg) color

#fff

Foreground (fg) color

#000

Accent colors

Fonts

Options

Spacing

Custom theming in Shiny & R Markdown with
bslib & thematic - RStudio

I sure wish my shiny app...

- Looked better
- Was more robust

... was more robust



<https://github.com/ThinkR-open/golem>



<https://github.com/rstudio/shinytest2/>



<https://github.com/Appsilon/rhino>

shinyloadtest

<https://github.com/rstudio/shinyloadtest/>

I sure wish my shiny app...

- Looked better
- Was more robust
- Did more *web stuff*

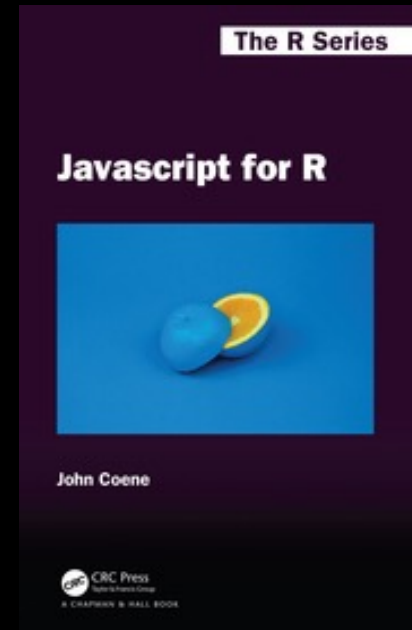
... did more *web stuff*



<https://github.com/daattali/shinyjs>






<https://github.com/JohnCoene/packer>




I sure wish my shiny app...

- Looked better
- Was more robust
- Did more *web stuff*
- Wasn't in shiny?

... wasn't in shiny

 **Ambiorix** [Package](#) [Belgic](#) [Generator](#) [CLI](#) [Middlewares](#) [Examples](#) [GitHub](#)  

Ambiorix



Web framework for R inspired by express.js

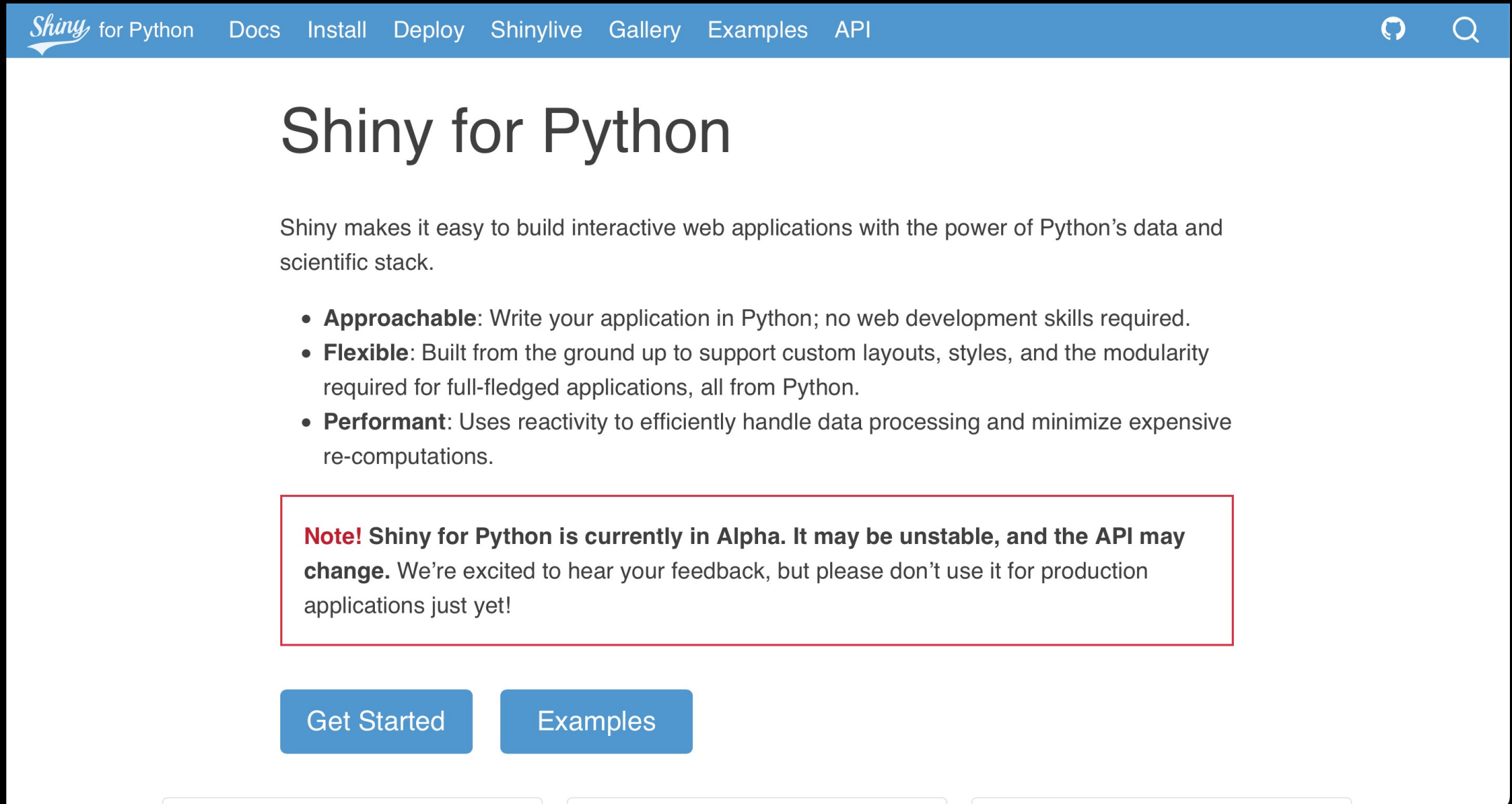
[Get Started](#)

<https://ambiorix.dev/docs/ambiorix/>

I sure wish my shiny app...

- Looked better
- Was more robust
- Did more *web stuff*
- Wasn't in shiny?
- Wasn't in R?

... wasn't in R?

A screenshot of the Shiny for Python website. The page has a blue header with the Shiny logo and navigation links: 'for Python', 'Docs', 'Install', 'Deploy', 'Shinylive', 'Gallery', 'Examples', and 'API'. There are also GitHub and search icons on the right. The main content area is white and features the title 'Shiny for Python' in a large, dark font. Below the title is a paragraph describing Shiny's capabilities. A bulleted list highlights three key features: Approachable, Flexible, and Performant. A red-bordered box contains a note about the software's alpha status. At the bottom, there are two blue buttons labeled 'Get Started' and 'Examples'.

Shiny for Python Docs Install Deploy Shinylive Gallery Examples API

Shiny for Python

Shiny makes it easy to build interactive web applications with the power of Python's data and scientific stack.

- **Approachable:** Write your application in Python; no web development skills required.
- **Flexible:** Built from the ground up to support custom layouts, styles, and the modularity required for full-fledged applications, all from Python.
- **Performant:** Uses reactivity to efficiently handle data processing and minimize expensive re-computations.

Note! Shiny for Python is currently in Alpha. It may be unstable, and the API may change. We're excited to hear your feedback, but please don't use it for production applications just yet!

Get Started Examples

<https://shiny.rstudio.com/py/>