

INTERMEDIATE SHINY WORKSHOP

- ▶ Environment:
 - ▶ Option 1: RStudio Server instance:
 - ▶ Go to <http://bit.ly/shiny-workshop-server> and claim an account
 - ▶ Then, go to <http://harpers-ferry.rstudio.com/> and login with claimed credentials
 - ▶ Option 2: Your own local RStudio, or a different R environment (however you may not be able to view deployed apps)
- ▶ Materials: Clone the workshop repository at <https://github.com/mine-cetinkaya-rundel/shiny-training-2017-05-genentech>



INTERMEDIATE SHINY

HELLO

my name is

**MINE
CETINKAYA-RUNDEL**

 @minebocek

THANK YOU

Joe Cheng, CTO at RStudio

Winston Chang, Software Engineer at RStudio

Bárbara Borges Ribeiro, Software Engineer at RStudio

DAY I

OUTLINE

- ▶ 9 - 9:15am - Overview of the workshop and setup
- ▶ 9:15 - 10:30am - A fast introduction to Shiny
- ▶ 10:30 - 11am - Break
- ▶ 11:00am - 12:00pm - Reactive programming, part 1
- ▶ 12 - 1pm - Lunch
- ▶ 1 - 2:30pm - Understanding UI
- ▶ 2:30 - 3pm - Break
- ▶ 3 - 4pm - Reactive programming, part 2

DAY 2

OUTLINE

- ▶ 9 - 10:30am - Advanced reactivity
- ▶ 10:30 - 11am - Break
- ▶ 11am - 11:30pm - Modules
- ▶ 11:30am - 12pm - Bookmarking
- ▶ 12 - 1pm - Lunch
- ▶ 1 - 1:30pm - Interactive data visualizations
- ▶ 1:30 - 2pm - Dashboards
- ▶ 2 - 2:30pm - Troubleshooting
- ▶ 2:30 - 3pm - Break
- ▶ 3 - 4pm - Guided sandbox exercise

BACKGROUND

- ▶ You know what a Shiny app is, and may have even made a few of them.
- ▶ You are familiar with R as a programming language.

SHINY SHOWCASE

Shiny User Showcase

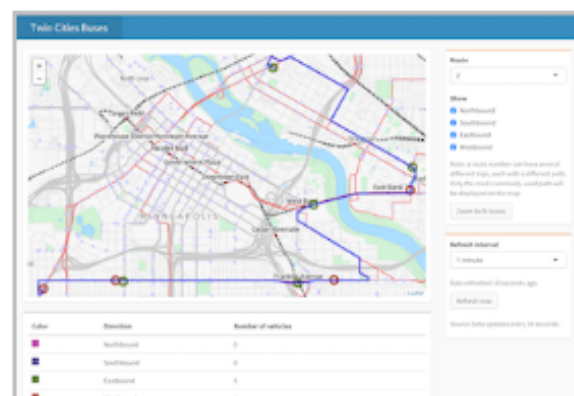
Shiny is designed for fully interactive visualization, using JavaScript libraries like d3, Leaflet, and Google Charts. Our users create fantastic examples, and some have shared them with the community. Here are some examples that we particularly like.

Shiny Apps for the Enterprise



MARKETING EFFECTS

See the effects of your marketing campaigns.



LOCATION TRACKER

Track locations over time with streaming data.



DOWNLOAD MONITOR

Streaming download rates visualized as a bubble chart.



PERSISTENT STORAGE

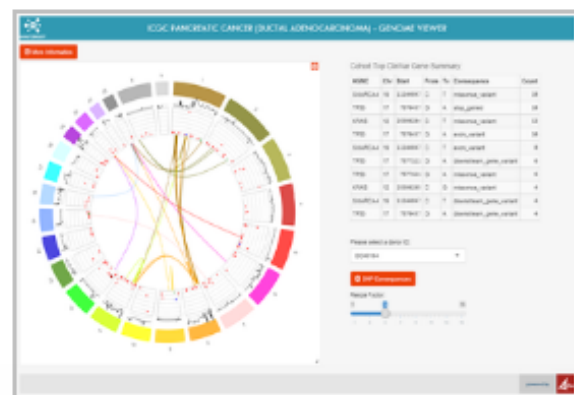
Save data from your apps to local files, servers, databases, and more.

<https://www.rstudio.com/products/shiny/shiny-user-showcase/>

Industry Specific Shiny Apps



TOURISM DASHBOARD



GENOME BROWSER



ER OPTIMIZATION



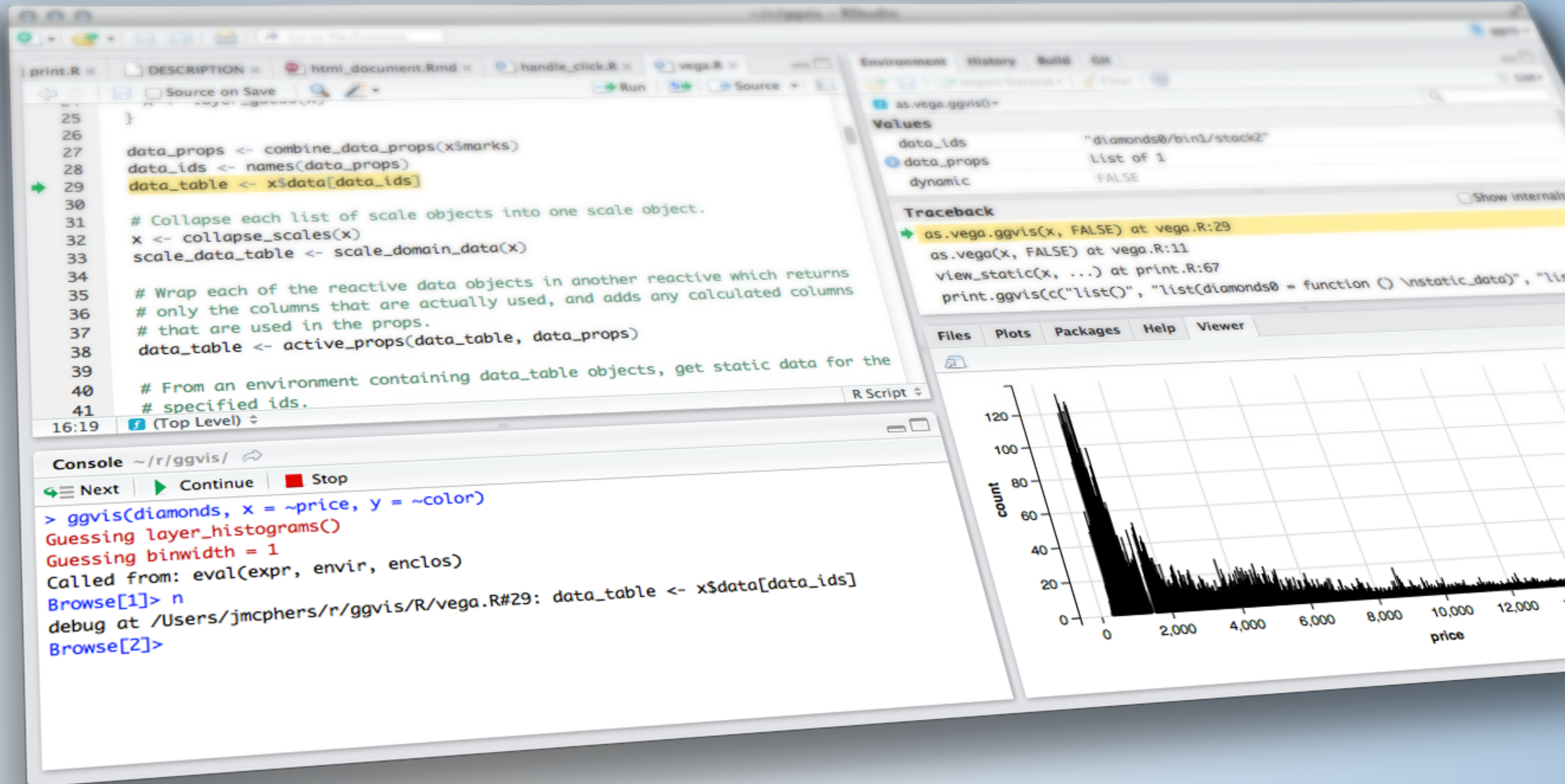
SUPPLY AND DEMAND

WHAT'S ON YOUR MIND?

- ▶ Any burning questions you came to have answered?
- ▶ What aspects of Shiny have you been struggling with?

IF YOU HAVEN'T ALREADY...

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