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Why use the shiny package from RStudio?

Use the command line to analyze my data?



Pointing and clicking.



Example of a Shiny application

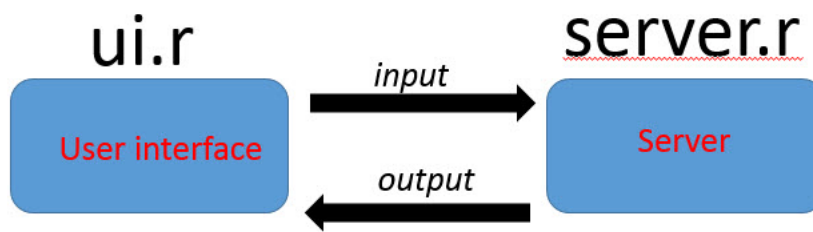


Why use the shiny package from RStudio?

Can use fancy terms like **HTML**, **CSS**, **Javascript** but let R do all the work with wrapper functions



The components of a Shiny app



Inspiration for this session

<http://shiny.rstudio.com/tutorial/>

The URL points to a 2.25 hour video as well as 7 lessons that we quickly work through here.

- Lesson 1 - Welcome to Shiny
- Lesson 2 - Layout the user interface
- Lesson 3 - Add control widgets
- Lesson 4 - Display reactive output
- Lesson 5 - Use R scripts and data

Install the shiny package

```
install.packages('shiny')
```

Then find where the package lives to access source code for examples

Change your working directory

```
setwd("~/R/win-library/3.2/shiny/examples")
```

Inspiration for this session

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We will now watch the entire thing

- Lesson 1 - Welcome to Shiny
- Lesson 2 - Layout the user interface
- Lesson 3 - Add control widgets
- Lesson 4 - Display reactive output
- Lesson 5 - Use R scripts and data
- Lesson 6 - Use reactive expressions
- Lesson 7 - Share your apps

How to make it for a easy for anybody to use your Shiny app

http://rstudio-pubs-static.s3.amazonaws.com/3269_a6682dfda37e411fb5e0e6699495cdc4.html



Ingestion of data into a Shiny app

How much pre-processing?

	Date	Event							
USA	1/3/2015	Spontaneous combustion				USA	1/3/2015	Spontaneous combustion	2
Canada	1/3/2015	Spontaneous combustion				USA	1/4/2105	Spontaneous combustion	3
USA	1/3/2015	Spontaneous combustion				Canada	1/3/2015	Spontaneous combustion	2
Canada	1/3/2015	Spontaneous combustion				Canada	1/4/2105	Spontaneous combustion	3
USA	1/4/2015	Spontaneous combustion							
Canada	1/4/2015	Spontaneous combustion							
USA	1/4/2015	Spontaneous combustion							
Canada	1/4/2015	Spontaneous combustion							
USA	1/4/2015	Spontaneous combustion							
Canada	1/4/2015	Spontaneous combustion							