HUDK 4051: ANAIYTICS: PROCESS &

In the news

Jerks and the Start-Ups They Ruin

By DAN LYONS APRIL 1, 2017

The New Hork Times

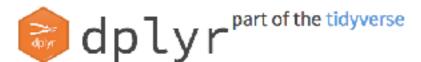
Introduction to Open Education

Learn about open education and how it can significantly reduce costs, increase agency and transparency, and improve learning outcomes. Starts on October 1, 2017

Enroll Now

I would like to receive email from University of Texas at Arlington and learn about other offerings related to Introduction to Open Education.





http://dplyr.tidyverse.org/





Who's on the List of Most Popular Edtech Organizations and Jobs?

What Federal Education Budget Cuts Mean for Edtech





Brookings Institution Researchers Find Many Countries Lack High-Quality Education Data

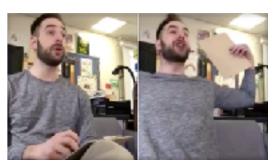


Princeton Is Scrambling To Block
Its Admissions Records From
Being Released
BUZZFEEDNEWS





- Faculty attendance, which shows the percentage of school days that instructional staff members were present.
- A graph is now included that displays the percentage of high school students who were chronically absent.
- PSAT and ACT performance is now a part of the high school reports.
- Peer school comparisons have been removed.



http://bit.ly/2oltLjc

Events

April 6, 5:30pm, NYC Data Wranglers, Introduction to OpenAI (https://openai.com/)

April 6 Giving Voice: Mobile Communication, Disability, and Inequality (https://www.eventbrite.com/e/giving-voice-mobile-communication-disability-and-inequality-a-small-group-session-with-dr-meryl-tickets-33012414019)
(Data & Society)

April 7-8 International Workshop on Obfuscation (http://www.obfuscationworkshop.io/schedule/) (NYU)

April 7-8 Theorizing the Web (http://theorizingtheweb.tumblr.com/2017/program) (Museum of the Moving Image)

April 19, 11am, Webinar: The tidyverse & RStudio Connect (http://bit.ly/2p1s7zY)

April 27-28, Algorithms & Explanations Conference, NYU (http://www.law.nyu.edu/centers/ili/events/algorithms-and-explanations)



Discovering and enacting the path to safe artificial general intelligence.

Opportunities

TC Academic Technology Tech Fellow http://bit.ly/2ol5sJg

Instructure, Salt Lake City, UT

Data Scientist - Product & Strategy (https://www.instructure.com/careers/)

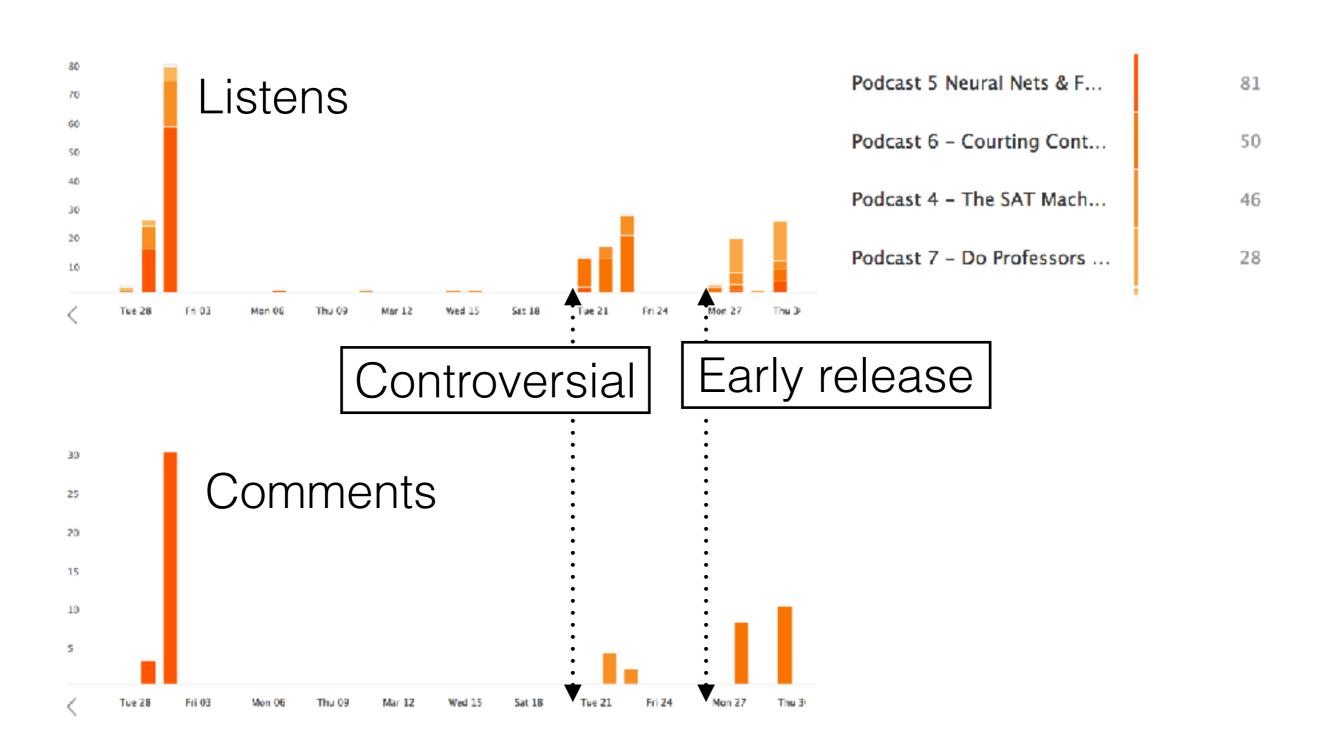
Insight, Seattle, WA

Application Deadline, May 22 (http:// insightdatascience.com/?17bNL=DSSEAb)

UTS PhD Info Webinar

TBA

A/B Test Vote



Open laptop, install



https://github.com/rstudio/shiny

Shiny

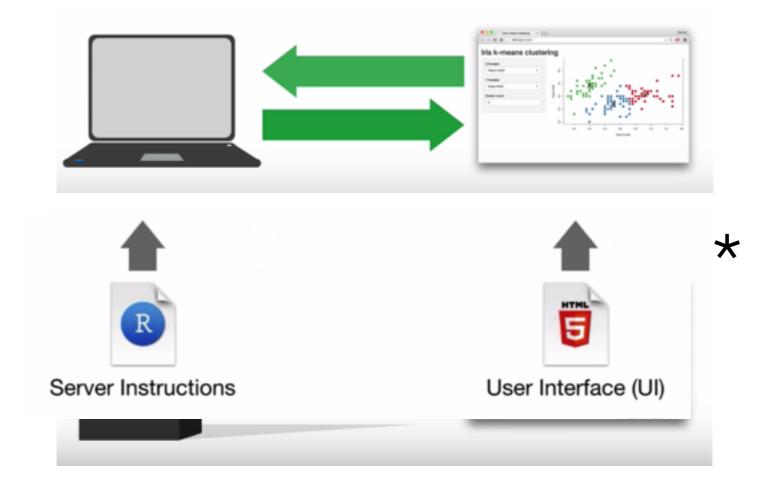
- Web Application Framework
- Allows you to make html applications from within R
- For us that means interactive data visualizations
- Example A*
- Example B*

Shiny

- Architecture
- Template
- Adding elements
- Reactive inputs
- Reactive results

Shiny Architecture

- Two components:
 - Computer running R
 - Webpage running html (user interface)



Shiny Template

```
library(shiny)

ui <- fluidPage()

server <- function(input, output) {}

shinyApp(ui = ui, server = server)</pre>
```

Example

Stop sign

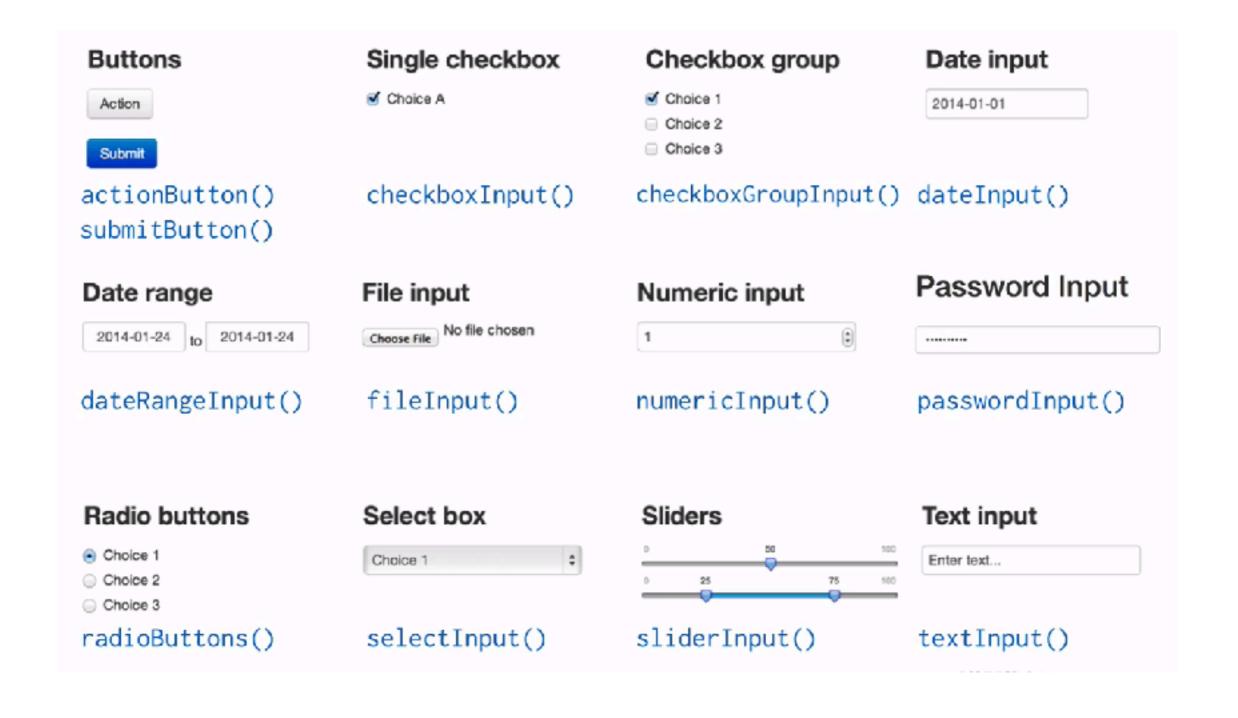
Shiny Template

```
library(shiny)
ui <- fluidPage()
server <- function(input, output) {}
shinyApp(ui = ui, server = server)</pre>
```

Input Functions

Things that your user will see and manipulate.

Input Functions



Input Function Syntax

```
xxxInput(inputId = "", label = ""...)

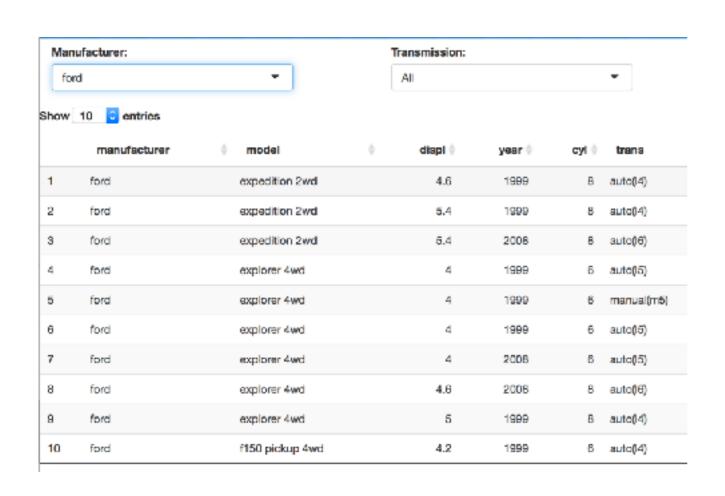
Internal use

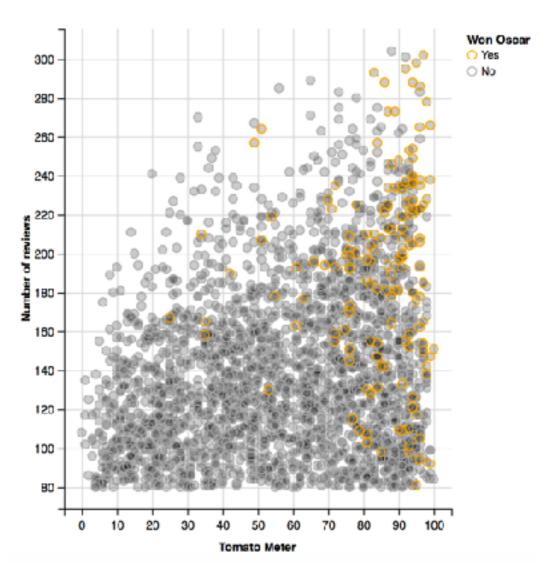
External use
```

Output Function

Things that your user will see when they manipulate something in your web app.

Output Function





Output Function

Function	Inserts
<pre>dataTableOutput()</pre>	an interactive table
htmlOutput()	raw HTML
<pre>imageOutput()</pre>	image
plotOutput()	plot
tableOutput()	table
textOutput()	text
uiOutput()	a Shiny UI element
verbatimTextOutput()	text

Output Function Syntax

```
plotOutput(outputId = "name")
```

Shiny Template

```
library(shiny)

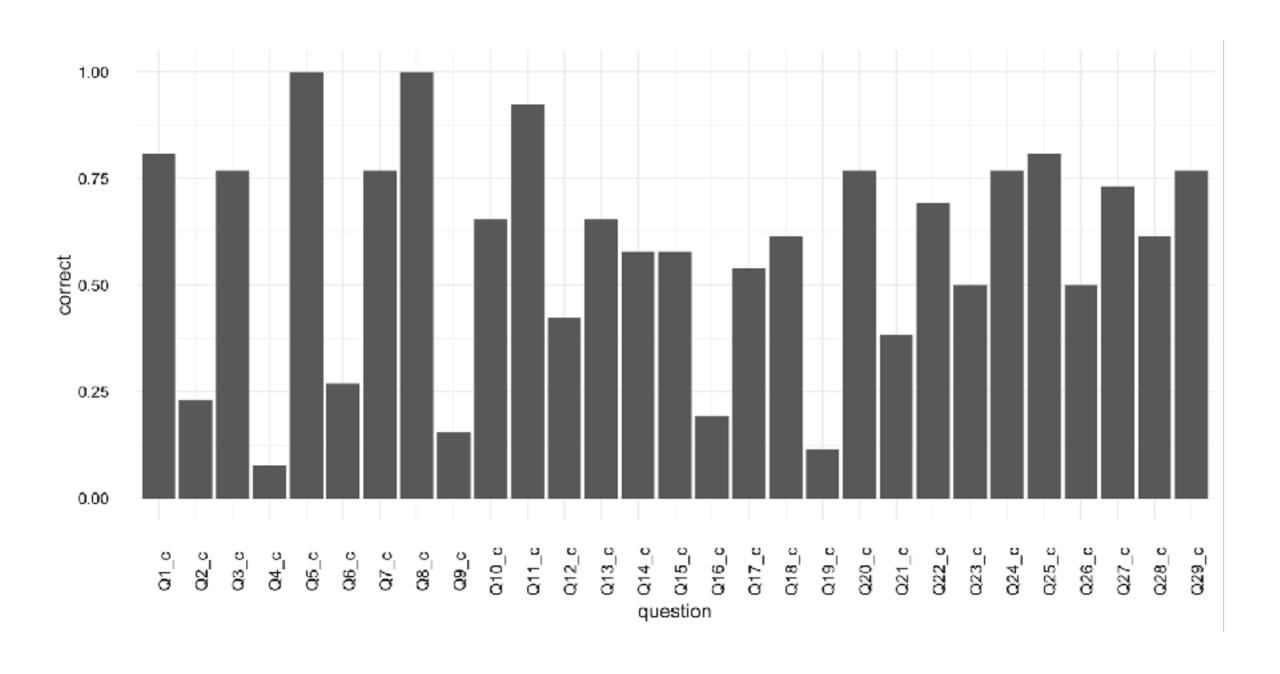
ui <- fluidPage()

server <- function(input, output) {}

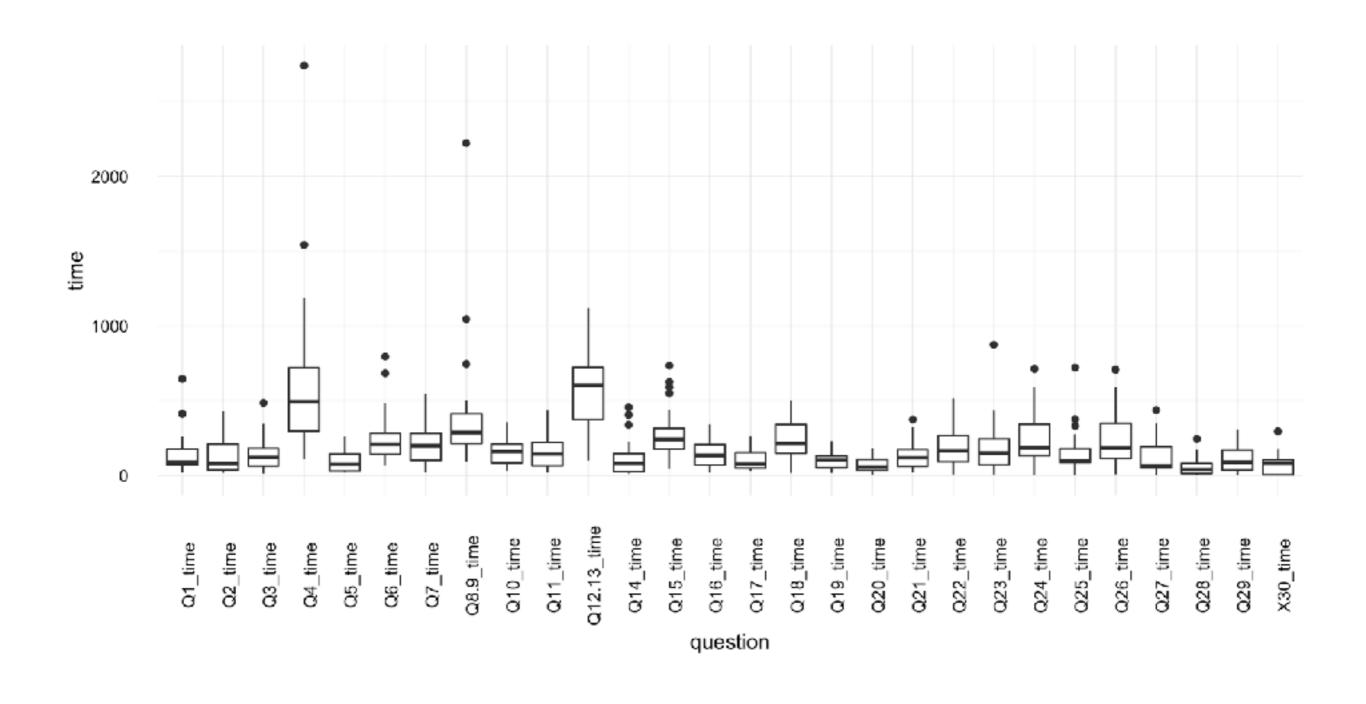
shinyApp(ui = ui, server = server)</pre>
```

Midterm Results

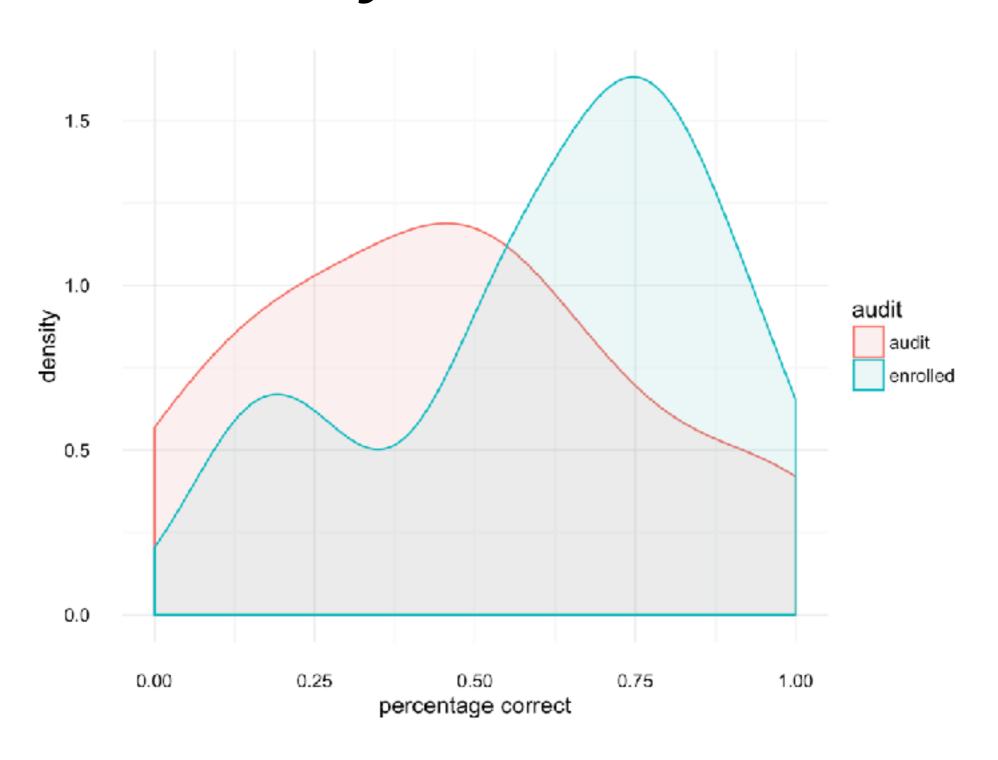
Correct vs. Question



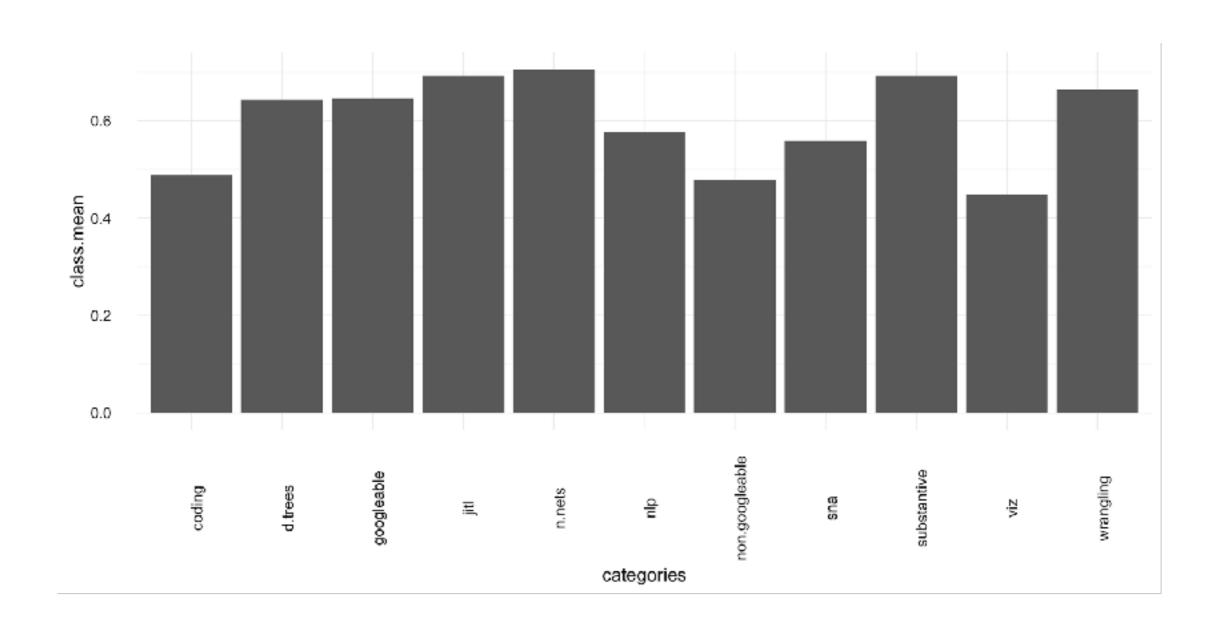
Time vs. Question



Correct by Audit/Enrolled



Correct vs. Question



Task

Is there anything information in these plots we should leverage in class?