

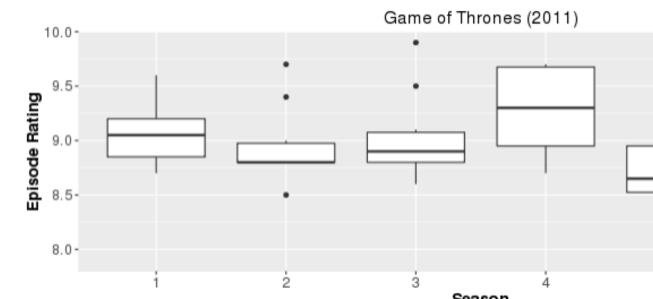
DYOD – Download Your Own Data Robin Lock, Ivan Ramler, Choong-Soo Lee

IMDb Ratings: *shiny.stlawu.edu:3838/TVSeries* (Shiny App) Student specifies: Name of a TV series

IMDB TV Show Episode Ratings

TV Series ∞
of Thrones (2011)
ace to clear previous name)
vnload Data as CSV
shows should be TV Series from the IMDB database http://www.imdb.com st 10 rated episodes
peName to get a random choice
a show? Try the url version of this app that let's you enter a url found at the site.

Boxplots of Episode Ratings by Season



how 10 - entries

	Episode	Season 🍦	EpisodeWithin Season 🔶	EpisodeName 🍦	UserRating 🌲	UserVotes 🗍
1	1	1	1	Winter Is Coming	9	19360
2	2	1	2	The Kingsroad	8.8	14680
3	3	1	3	Lord Snow	8.7	13866
4	4	1	4	Cripples Bastards and Broken Things	8.7	13172
5	5	1	5	The Wolf and the Lion	9.1	14060

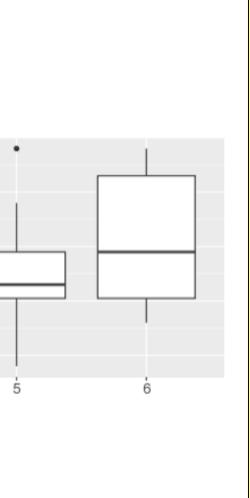
Car Prices: myslu.stlawu.edu/~clee/dataset/cars (Javas **Student specifies:** Car make/model, zip code

default, the dataset includes:	
 Year Mileage Price 	
ke: Toyota • Model: Highlander • Zip Code: 02045	Max # of Records (1-300): 50

House Prices: *myslu.stlawu.edu/~clee/dataset/zillow* (Javascript) Student specifies: zip code

nerates a CSV dataset of properties listed in Zillow, based on a zip code (US only).		
	1	link
ault, the dataset includes:	2	http://www.zillow.
	3	http://www.zillow.
URL to the property	4	http://www.zillow.
Approximate price	5	http://www.zillow.
# of bedrooms	6	http://www.zillow.
# of bathrooms	7	http://www.zillow.
Square footage	8	http://www.zillow.
Lot size	9	http://www.zillow.
	10	http://www.zillow.
data option adds the following (however, this significantly increases the processing time to s	11	http://www.zillow.
data option adds the following (nowever, this significand) increases the processing time to a	12	http://www.zillow.
street address	13	http://www.zillow.
	14	http://www.zillow.
city testa	15	http://www.zillow.
state	16	http://www.zillow.
zip code	17	http://www.zillow.
year built	18	http://www.zillow.
Zestimate	19	http://www.zillow.
Exact price	20	http://www.zillow.
•		
de: 13617 🔄 File Name: Canton.csv 🛛 Full Data 🔲 Max # of R	leco	ords (1-300): 100

Output dataset



	А	В	С	D	E	F			
1	Episode	Season	EpisodeWithinSeason	EpisodeName	UserRating	UserVotes			
2	1	1	1	Winter Is Coming	9	19360			
3	2	1	2	The Kingsroad	8.8	14680			
4	3	1	3	Lord Snow	8.7	13866			
5	4	1	4	Cripples Bastards and	8.7	13172			
6	5	1	5	The Wolf and the Lion	9.1	14060			
7	6	1	6	A Golden Crown	9.2	13763			
8	7	1	7	You Win or You Die	9.2	14116			
9	8	1	8	The Pointy End	9	12798			
10	9	1	9	Baelor	9.6	18333			
11	10	1	10	Fire and Blood	9.4	16287			
12	11	2	1	The North Remember	8.8	12980			
13	12	2	2	The Night Lands	8.5	12006			
14	13	2	3	What Is Dead May Nev	8.8	11874			
15	14	2	4	Garden of Bones	8.8	11243			
16	15	2	5	The Ghost of Harrenh	8.8	11445			
17	16	2	6	The Old Gods and the	9	12268			
18	17	2	7	A Man Without Honor	8.9	11802			
19	18	2	8	The Prince of Winterf	8.8	11600			
20	19	2	9	Blackwater	9.7	21944			
21	20	2	10	Valar Morghulis	9.4	15412			
22	21	3	1	Valar Dohaeris	8.8	13656			

Episode Season Episode within Season

Episode name Average User Rating Number of Raters

Output dataset

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S	С	r	ip	J(
Ū	-	-		-	/

File Name:	Hylander.csv	Submit

	А	В	С	
1	year	price	mileage	
2	2012	18.228	89.259	
3	2005	6.98	153.222	
4	2010	11.9	124.476	
5	2014	26.999	50.122	
6	2015	24.588	57.293	
7	2014	24.5	53.599	
8	2010	15.998	67.504	
9	2014	21.298	47.121	
10	2006	9.599	69.958	
11	2015	27.595	23.395	
12	2014	24.999	48.387	
13	2014	23.999	47.14	
14	2013	22.995	35.812	
15	2012	23.083	45.711	
16	2014	18.999	54.406	
17	2014	24.304	55.67	
18	2014	24.994	39.801	
10	2006	9 612	120 200	

Output dataset

Submit

A	В	С	D	E	F
	price	bedrooms	baths	sqfootage	lotsize
w.zillow.com/homedetails/32534785_zpid/	22	1	1	572	0.5
w.zillow.com/homedetails/84111850_zpid/	164	3	2	1512	5.9
w.zillow.com/homedetails/32533558_zpid/	190	4	2	3100	0.28
w.zillow.com/homedetails/32555755_zpid/	99	3	1	1442	0.8
/w.zillow.com/homedetails/32533398_zpid/	257	4	3	2263	0.99
/w.zillow.com/homedetails/32534352_zpid/	40	5	2	5000	1.1
/w.zillow.com/homedetails/32534951_zpid/	50	2	1	974	0.34
/w.zillow.com/homedetails/32533459_zpid/	40	3	1	3016	
/w.zillow.com/homedetails/32534466_zpid/	189.651	3	1	2688	1
/w.zillow.com/homedetails/32537908_zpid/	40	2	1	784	
w.zillow.com/homedetails/32533738_zpid/	67	3	2	1360	0.189991
/w.zillow.com/homedetails/32534886_zpid/	79	3	2	1680	1.8
w.zillow.com/homedetails/2101188755_zpid/	95	3	2	2296	
/w.zillow.com/homedetails/2097441906_zpid/	165	3	3	1692	0.92
/w.zillow.com/homedetails/32533401_zpid/	85	3	2	1860	
/w.zillow.com/homedetails/32533442_zpid/	105	4	3	2574	0.27
/w.zillow.com/homedetails/32559980_zpid/	105	4	2	2541	1.07
/w.zillow.com/homedetails/32560006_zpid/	75	2	1	1200	
/w.zillow.com/homedetails/32559224_zpid/	92	3	1	1428	2

Caveat: You are free (and encouraged!) to use these apps with your students (or to quickly get your own data for class examples/ exams/...), BUT be aware that there is some risk of one of the sites we are using to scrape the data objecting to many requests coming from our web server and shutting off access.





















Sample Projects/Activities

Stat 1: IMDb Ratings (in-class activity)

- Pick a favorite TV series
- Download IMDb ratings dataset
- Create side-by-side boxplots to compare
- ratings by season (as in the app)
- ratings by episode within a season
- Are there any outlier ratings?
- Generate summary statistics within seasons (or episodes within seasons)
- Compare ratings for your series to another student's choice

Stat 2: Car prices (regression project)

- Pick a car model and zip code to sample
- Look at a regression model to predict **price** based on **age**.
- Is there an age at which this car is predicted to be free?
- Look at residual plots (usually show curvature with faster early depreciation).
- Try a quadratic regression based on age (often shows an "classic" effect for older cars)
- Use both **age** and **mileage** as predictors of **price.** (deals with strongly related predictors).

Stat 1: House prices (homework activity)

- Obtain housing samples from two cities
- 2. Construct a CI (and/or test) for the difference in mean price between the cities.

Stat 2: House prices (regression)

Obtain a sample of houses from a zip code and build models to predict price based on the other variables.