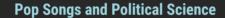
### An Example R Markdown Document

(A Subtitle Would Go Here if This Were a Class)

Maik Thalmann

Where, 10 April, 2020

Georg-August-University Göttingen



# **Sheena Easton and Game Theory**

Sheena Easton describes the following scenario for her baby:

- 1. Takes the morning train
- 2. Works from nine 'til five
- 3. Takes another train home again
- 4. Finds Sheena Easton waiting for him

### R Stuff

```
A tibble: 6 x 10
##
    carat cut
                     color clarity depth table price x
##
     <dbl> <ord>
                     <ord> <ord>
                                   <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <
  1 0.23
          Ideal
                     F
                           SI2
                                    61.5
                                            55
                                                 326
                                                      3.95
                                                           3.98
                                                                  2.43
           Premium
                           SI1
                                    59.8
                                                 326
                                                      3.89
                                                            3.84
## 2 0.21
                                            61
                                                                  2.31
## 3 0.23
          Good
                     Ε
                           VS1
                                    56.9
                                            65
                                                 327
                                                      4.05
                                                            4.07
                                                                  2.31
## 4 0.290 Premium
                           VS2
                                    62.4
                                            58
                                                 334
                                                      4.2
                                                            4.23
                                                                  2.63
## 5 0.31
                           SI2
                                    63.3
                                                 335
                                                      4.34
                                                            4.35
           Good
                                            58
                                                                  2.75
  6 0.24
           Very Good J
                           VVS2
                                    62.8
                                            57
                                                 336
                                                      3.94
                                                            3.96
                                                                  2.48
```

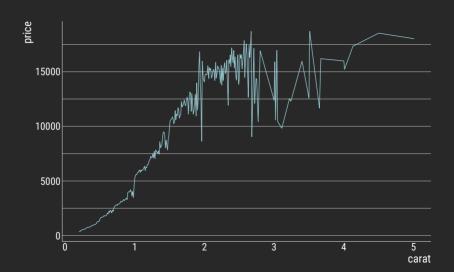
### R Stuff

Some text to compare font sizes on this slide.

```
library(psych)
desc <- as.data.frame(describeBy(d$price, d$color, mat = T, digits = 2))
kable(desc, booktabs = T) %>%
  kable_styling(latex_options = "scale_down")
```

	item	group1	vars	n	mean	sd	median	trimmed	mad	min	max	range	skew	kurtosis	se
X11		D		6775	3169.95	3356.59	1838.0	2457.57	1657.55	357	18693	18336	2.10	4.67	40.78
X12		E		9797	3076.75	3344.16	1739.0	2349.98	1537.46	326	18731	18405	2.17	4.89	33.79
X13				9542	3724.89	3784.99	2343.5	2974.69	2274.31	342	18791	18449	1.75	2.82	38.75
X14	4			11292	3999.14	4051.10	2242.0	3245.61	2277.27	354	18818	18464	1.50	1.72	38.12
X15		н		8304	4486.67	4215.94	3460.0	3755.13	3683.52	337	18803	18466	1.38	1.45	46.26
X16	6			5422	5091.87	4722.39	3730.0	4332.86	4067.51	334	18823	18489	1.16	0.42	64.13
X17	7	J	1	2808	5323.82	4438.19	4234.0	4721.87	4088.27	335	18710	18375	1.03	0.28	83.75

# Plot



### Rick Astley's Re-election Platform

#### Rick Astley's campaign promises:

- Never gonna give you up.
- Never gonna let you down.
- Never gonna run around and desert you.
- Never gonna make you cry.
- Never gonna say goodbye.
- Never gonna tell a lie and hurt you.

Are these promises (if credible) sufficient to secure re-election?

# Rick Astley and Median Voter Theorem

Whereas these pledges conform to the preferences of the **median voter**, we expect Congressman Astley to secure re-election.

# **Caribbean Queen and Operation Urgent Fury**

Billy Ocean released "Caribbean Queen" in 1984.

- Emphasized sharing the same dream
- · Hearts beating as one

"Caribbean Queen" is about the poor execution of Operation Urgent Fury.

• Echoed JCS chairman David Jones' frustrations with military establishment.

Billy Ocean is advocating for what became the Goldwater-Nichols Act.

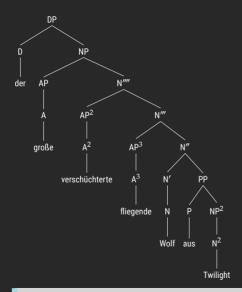
• Wanted to take advantage of **economies of scale**, resolve **coordination problems** in U.S. military.

# The Good Day Hypothesis

We know the following about Ice Cube's day.

- 1. The Lakers beat the Supersonics.
- 2. No helicopter looked for a murder.
- 3. Consumed Fatburger at 2 a.m.
- 4. Goodyear blimp: "Ice Cube's a pimp." Heim & Kratzer (1998)
- 5. (Posner 1980, Hintikka 1969, Gries 2013, Grice 1989, Groenendijk & Stokhof 1984)

# The Good Day Hypothesis



### **Semantics**

(1) Lexikoneinträge

nttps://mkthalmann.github.io/home/

# The Good Day Hypothesis

This leads to two different hypotheses:

- $H_0$ : Ice Cube's day is statistically indistinguishable from a typical day.
- ullet  $H_1$ : Ice Cube is having a good (i.e. greater than average) day.

These hypotheses are tested using archival data of Ice Cube's life.

Grice, H. Paul. 1989. Studies in the way of words. Cambridge, MA: Harvard University Press.

Gries, Stefan T. 2013. Statistics for linguistics with r a practical introduction. Berlin: de Gruyter Mouton.

Groenendijk, Jeroen & Martin Stokhof. 1984. Studies on the semantics of questions and the pragmatics of answers. University of Amsterdam dissertation.

Heim, Irene & Angelika Kratzer. 1998. Semantics in generative grammar. Oxford: Blackwell.

Hintikka, Jaakko. 1969. Semantics for propositional attitudes. In *Models for modalities*, 87–111. Dordrecht: Springer.

Posner, Roland. 1980. Semantics and pragmatics of sentence connectives in natural language. In John R Searle, Ferenc Kiefer & Manfred Bierwisch (eds.), *Speech act theory and pragmatics*, 168–203. Dordrecht: Reider.

### **Table of Contents**

Pop Songs and Political Science