An Example R Markdown Document (A Subtitle Would Go Here if This Were a Class)

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Section 1

Pop Songs and Political Science



Morning Train



Sheena Easton and Game Theory

Sheena Easton describes the following scenario for her baby:

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

Sheena Easton and her baby are playing a zero-sum (total conflict) game.

- Akin to Holmes-Moriarty game (see: von Neumann and Morgenstern)
- Solution: mixed strategy



Never Gonna Give You Up



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.

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



Caribbean Queen



Caribbean Queen and Operation Urgent Fury

In 1984, Billy Ocean released "Caribbean Queen".

- 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 advancing calls for what became the Goldwater-Nichols Act.

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



Good Day



The Good Day Hypothesis

We know the following about Ice Cube's day.

- The Lakers beat the Supersonics.
- No helicopter looked for a murder.
- Onsumed Fatburger at 2 a.m.
- Goodyear blimp: "Ice Cube's a pimp."

This leads to two different hypotheses:

- \bullet 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.



Section 2

Rendering This Document



The Problem of Rendering in Markdown

One big disadvantage to Markdown: compiling.

Here's what it would look like from Terminal



Figure 1: Markdown Call

Nobody got time for that.



One Alternative: RStudio





Another Alternative: Rscript

Another option: noninteractive Rscript

- I prefer this option since I tend to not like GUIs.
- Assumes you're on a Linux/Mac system.

Save this to a .R script (call it whatever you like)

 Note that the "s" in "utils" package is cut off in verbatim environment below.

```
#! /usr/bin/Rscript --vanilla --default-packages=base, stats, util
library
library
    list.files pattern='.Rmd'
    ::render
```

Make it executable. Double click or run in Terminal.

Keep a copy in each directory, but keep only one .Rmd per directory.



Section 3

Conclusion



Conclusion

Beamer markup is messy. Markdown is much more elegant.

- Incorporating R with Markdown makes Markdown that much better.
- \bullet Rendering Markdown \to Beamer requires minimal Rscript example.
- I provide such a script to accompany this presentation.

