Data Mining with Python Most of the work is in preparing the data

Clark Fitzgerald

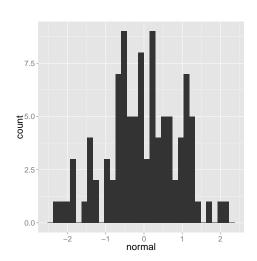
Cisco Systems

Winter 2014

Statisticians love data visualizations

Python

Clark Fitzgeral



This is the second slide

Python

Clark Fitzgerald

Here is where I would write a bunch of text. Visit the course website

Summary

Programming is super fun.

Powerpoints should always contain n bullet points

Python

Clark Fitzgerald

- Bullet 1
- Bullet 2
- ...
- Bullet *n*

Makefile in progress here!

Python

Clark Fitzgeralo

```
1 # could make a figures directory
    figs := $(wildcard figs/*.pdf)
 5 pres.pdf : pres.tex figs/normal.pdf
       pdflatex pres.tex
   figs/normal.pdf : normal.R
       R CMD BATCH --vanilla normal.R
10
11 clean :
12
       rm *.aux *.log *.nav *.out *.snm *.toc *.Rout
```

This is a screenshot, a PNG file.

Evolving Makefile contents

Python

Clark Fitzgerald

```
pres.pdf : pres.tex figs/normal.pdf
    pdflatex pres.tex

figs/normal.pdf : normal.R
    R CMD BATCH --vanilla normal.R

clean :
    rm *.aux *.log *.nav *.out *.snm *.toc *.Rout
```

Evolving Makefile contents

Python

Clark Fitzgerald

```
# Everything in the 'figs' directory
figs := $(wildcard figs/*)

pres.pdf : pres.tex $(figs)
    pdflatex pres.tex
```

We have gained a bit of abstraction by specifying that pres.pdf depends on everything in the figs directory.