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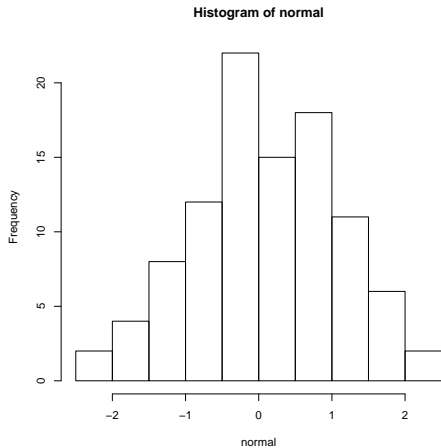## Most of the work is in preparing the data

Clark Fitzgerald

Cisco Systems

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# Statisticians *love* data visualizations



Histogram of normal

# This is the second slide

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

- Bullet 1
- Bullet 2
- ...
- Bullet $n$

# Makefile in progress here!



```
 1 # could make a figures directory
 2 # figs := $(wildcard figs/*.pdf)
 3
 4
 5 pres.pdf : pres.tex figs/normal.pdf
 6     pdflatex pres.tex
 7
 8 figs/normal.pdf : normal.R
 9     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

```
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

```
# 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.

Here's some random math thing.

$$\sum_{i=1}^{n} xi^2 + 23x + \pi$$

More text after.