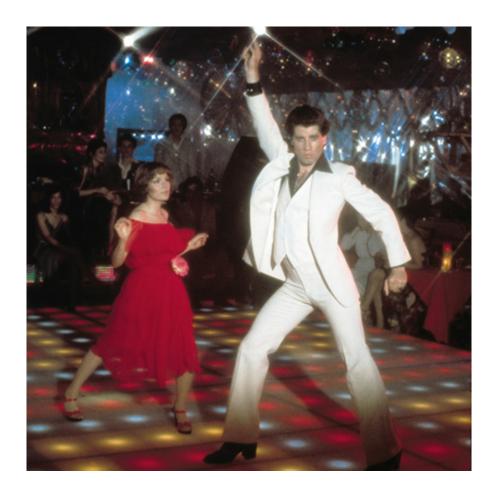
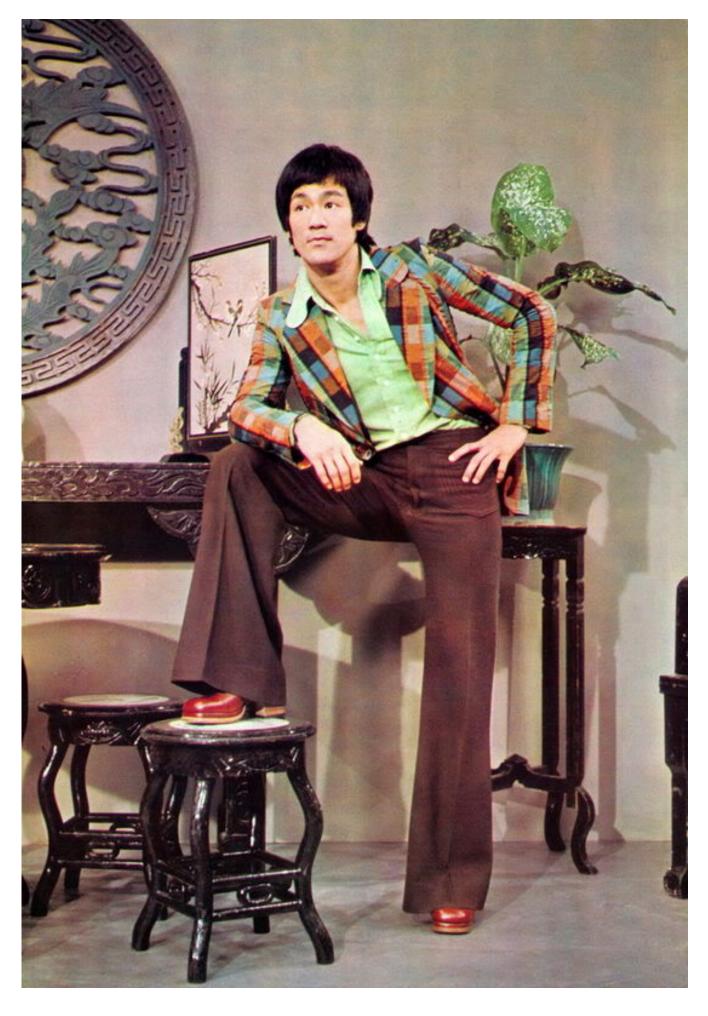
Lec 32 Tactile Simulation

Imagine its the 1970s





... and all the corresponding views about gender and women in the workplace







Context

Numbers are numbers, but data has context!

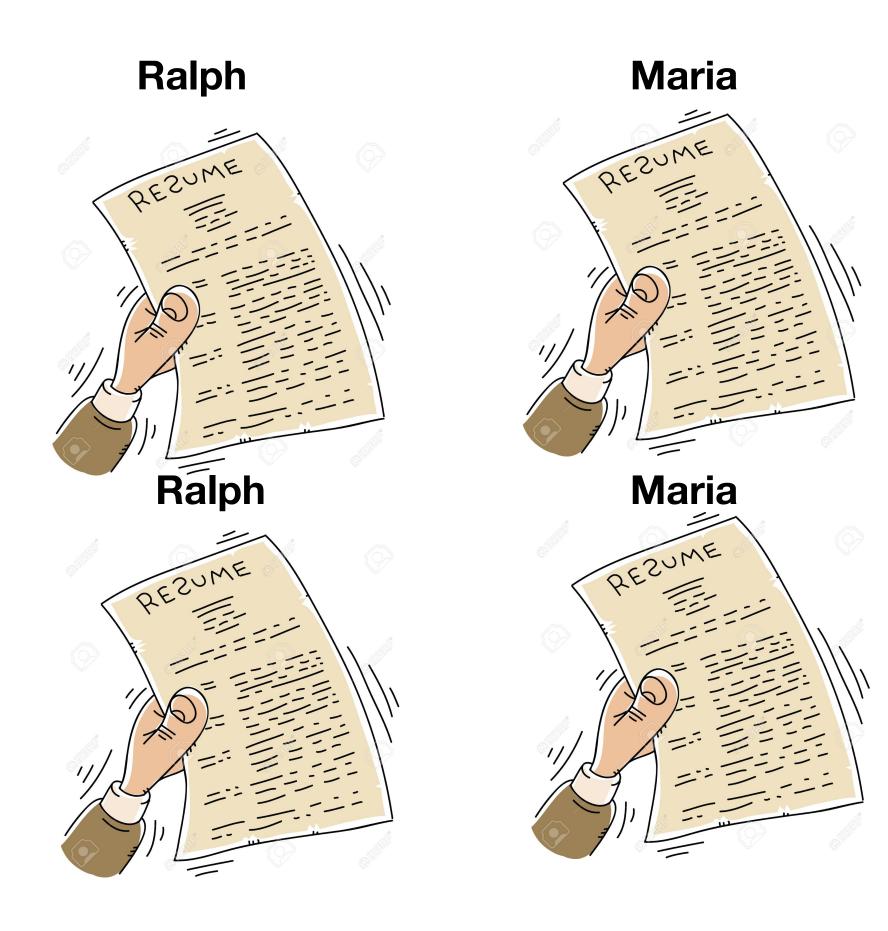
- 48 male bank supervisors were asked if they would recommend a particular candidate for promotion
- 24 female and 24 male candidates were considered (recall this data was collected in the 70s)

Research Question & Methodology

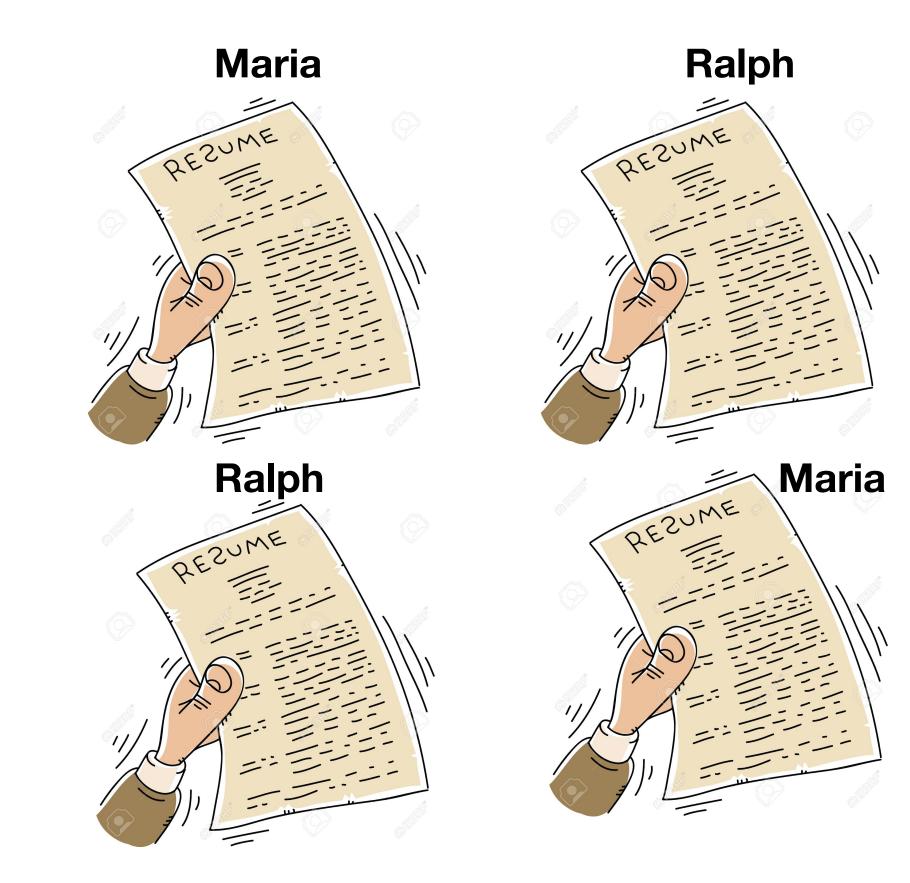
- Research question: Does (binary) gender have an effect on whether a candidate gets recommended for promotion? In other words, what is the causal effect of
- - X: Gender
 - Y: Candidate gets promoted or not
- Question to you: What is the best way to answer this question? How can we answer this question?

How researchers did it

Researchers sent out 48 identical resumes...



... except the name on the top!



```
Console ~/Documents/ModernDive/moderndive/ />
> library(moderndive)
> promotions
# A tibble: 48 x 3
      id decision gender
   <int> <fct>
                   <fct>
                   male
       1 not
 2
                   male
       2 not
 3
                   male
       3 not
                   female
 4
       4 not
                   female
 5
       5 not
                   female
       6 not
 6
                   female
       7 not
                   female
 8
       8 not
                   female
 9
       9 not
                   female
10
      10 not
    with 38 more rows
#
>
```

Data

Original counts			
	not promoted	promoted	total
m	3	21	24
f	10	14	24
total	13	35	48

value		calculation	result	
proportion male promoted		21 / 24		0.875
proportion female promoted		14 / 24		0.583
difference in favor of males		0.875 - 0.583		0.292
difference in favo	r of males	0.875 - 0.583		0.2

Men were promoted at **29.2% higher rate!**

But is this difference due to chance? Or is it because of systematic sexism in the workplace in the 1970s?







A hypothetical universe...

Where gender makes no difference ...

In this hypothetical world...

Ralph





Maria





Maria

Is the same as ...



Ralph



