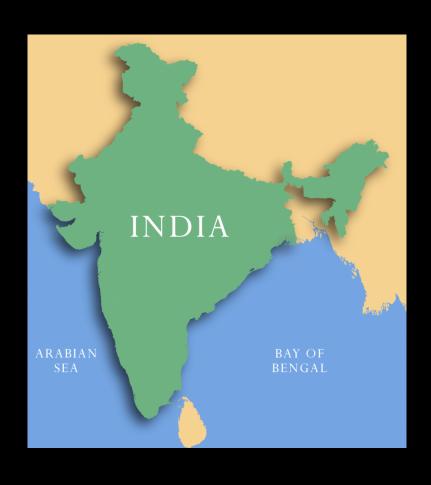
# Exploring the Wisdom of Crowds Week 2

Sharad Goel Stanford University

February 20, 2015

# Results of our mini wisdom of crowds experiment

### What is the total area of India? (km²)



3,287,590 km<sup>2</sup>

### Mean guess

8,245,802 (18<sup>th</sup> percentile)

3,287,590 km<sup>2</sup>

Mean guess

8,245,802 (18<sup>th</sup> percentile)

Max guess

100,000,000

3,287,590 km<sup>2</sup>

### Median

1,500,000 (72st percentile)

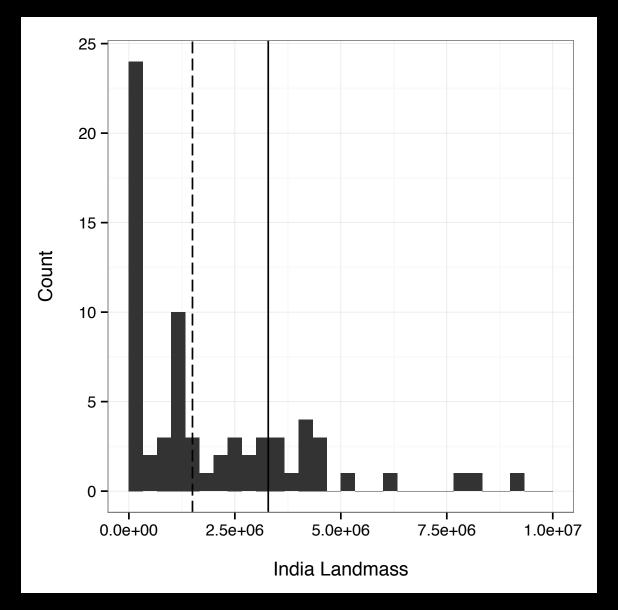
### Truncated mean

First remove largest and smallest 5% of values, and then take the mean of the remaining values

3,287,590 km<sup>2</sup>

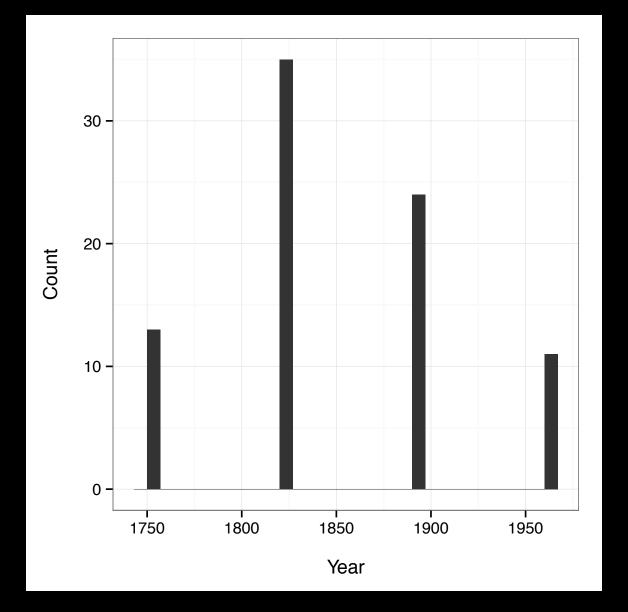
### Truncated mean

4,135,343 (81st percentile)



### In what year was this painting made?

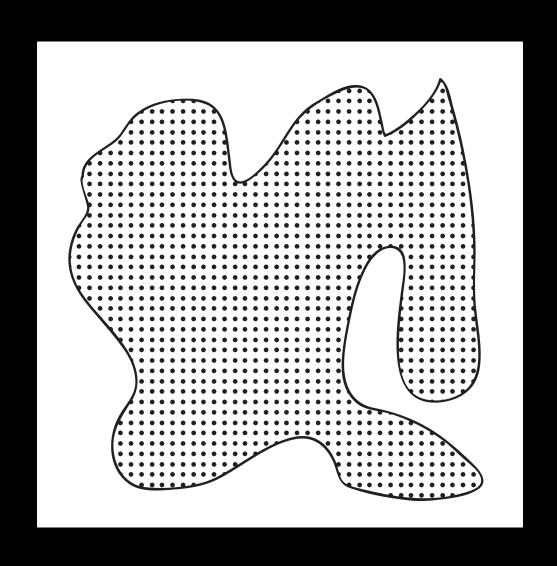




Mean answer 1847

Median answer 1820

### How many dots are in the figure?



Mean guess

73,623 (2<sup>nd</sup> percentile)

Max guess

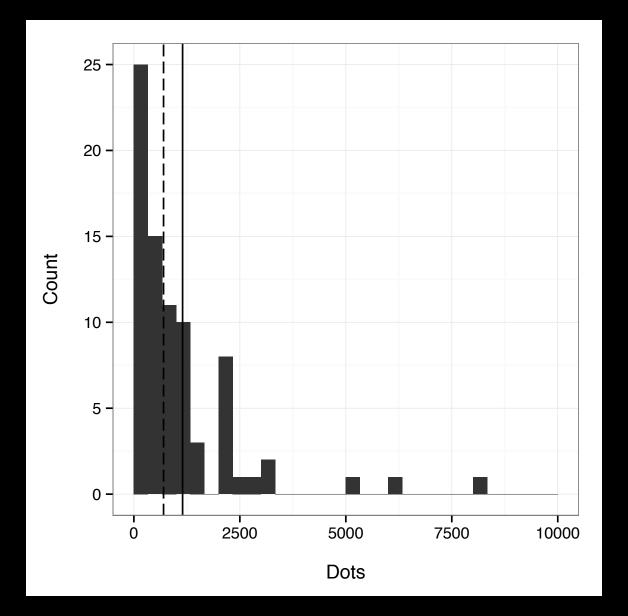
5,000,000

Median

700 (73<sup>rd</sup> percentile)

Truncated mean

995 (88<sup>th</sup> percentile)



### India vs. Pakistan

Cricket World Cup, Game 4

How many runs do you think each team will score?

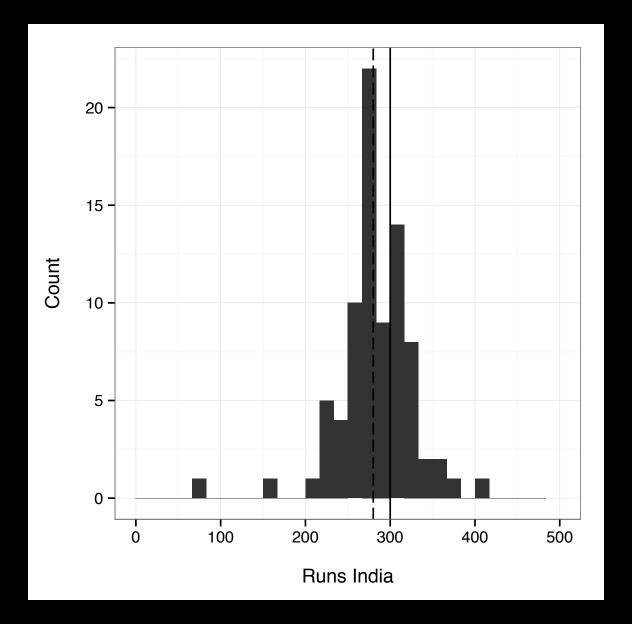
300 (India) - 224 (Pakistan)

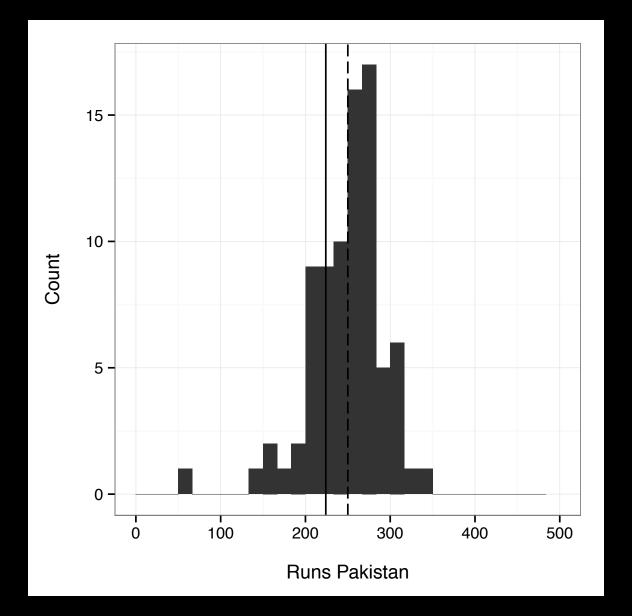
Median (India)

280 (72<sup>nd</sup> percentile)

Median (Pakistan)

250 (66<sup>th</sup> percentile)





## The aggregation method matters need to account for extreme values

### Crowd estimate reasonably good

better than 70 – 80% of participants [in these examples]

[ doc/inClass\_exp/survey\_results.pdf ]

# And the platform design winners are...

#### Team Traceback

Alok Shankar, Arvind Srikantan, Chiraag Sumanth, Bhargav HS, Ramesh Arvind

#### **Team Visionastra**

Tushar Dobhal, Atif Ahmed, Mayank Pahadia, Vikas Yaligar, Mani Shankar

### **Team Visionaries**

Sudheer Vazrapu, Sukanya Venkataraman, Venkat Nirmal, Kasyap Varma, Anusha Singh

### Literature review

Analysis of WoC in a specific domain (e.g., weather forecasts, combinatorial optimization)

Development of novel aggregation methods

General study of WoC (e.g., effects of social influence, crowd size)

#### GitHub

submit usernames by noon PST today
[for pushing changes / tracking progress]

do not create extraneous branches; push directly to the repository

# Assignment [ all teams ]

continue literature review rate tasks

Assignment
[ platform design teams ]
 continue prototyping