



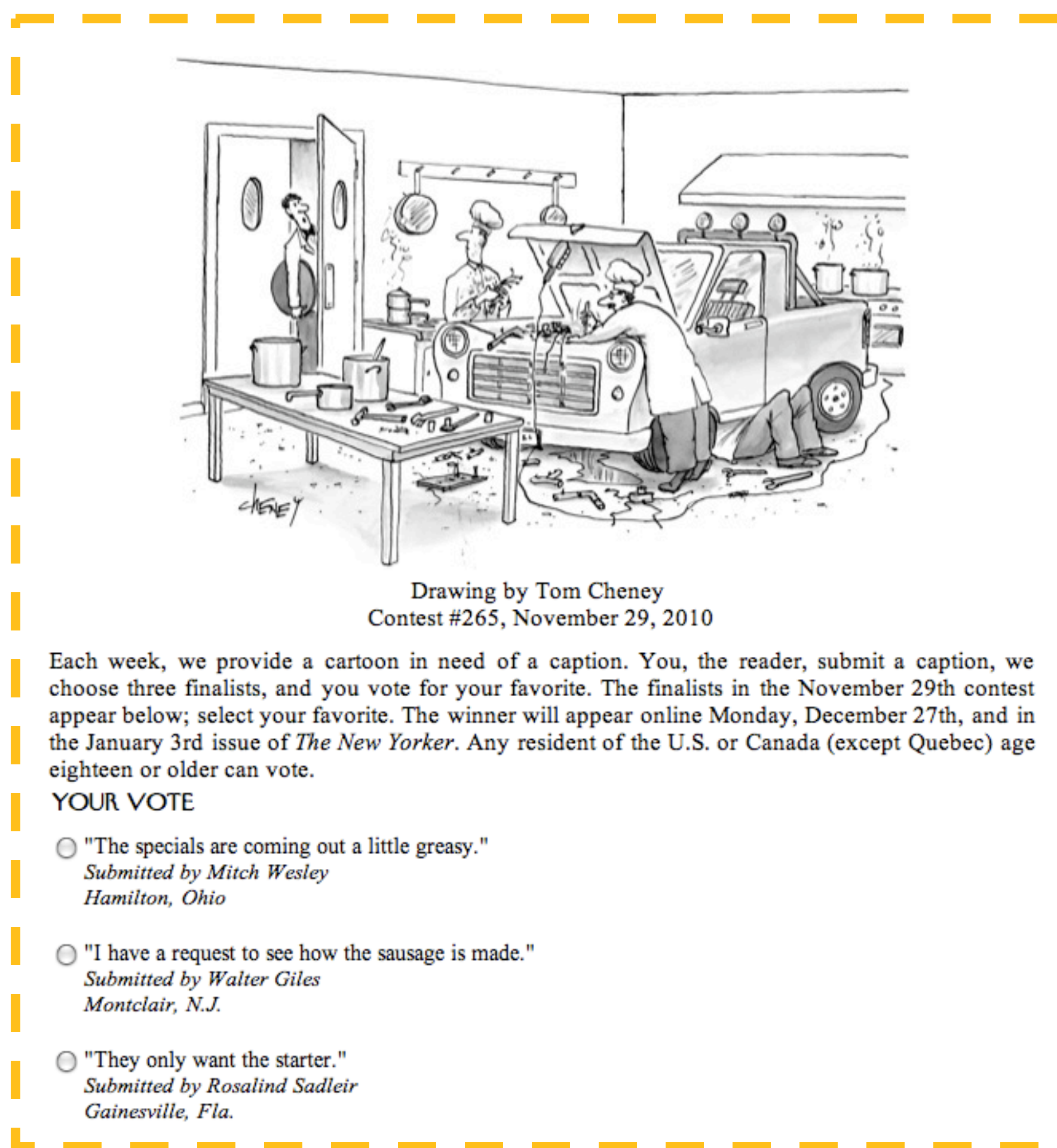
# Are Turkers like New Yorkers?

Kristal Curtis, Tim Kraska, Armando Fox, David Patterson



## Problem Description

- Crowdsourcing is an exciting new opportunity
- Mechanical Turk is a flexible way to participate in crowd sourcing
- Our goal: explore what kinds of tasks we can expect Turkers to do
- Can we expect Turkers to weigh in on matters involving cultural knowledge/common sense?
- Our experiment: Do Turkers have the same sense of humor as New Yorker readers?
  - Compare results from New Yorker cartoon caption contest to Turkers' favorite captions
  - Would expect them to diverge



## Related Work

- This work is related to studies of the demographics of Mechanical Turk
- Lots of interesting results in this sphere from Panos Ipeirotis (NYU)
  - Most Turkers are from either the US (50%) or India (40%), probably because Amazon supports paying in local currencies in these countries
  - They're usually younger and less affluent than the general population
  - More women participate in the US, while more men participate in India

## HIT Design/Evolution

- Went through several iterations to design the Human Intelligence Task (HIT)
- Sources of feedback:
  - Input field in the original HIT
  - Turker Nation ([www.turkernation.com](http://www.turkernation.com))
- HIT Batch Details:
  - One HIT template
  - 50 distinct HITs, each with a different New Yorker cartoon
  - 25 assignments per HIT
  - 1250 responses total
  - Workers can do multiple HITs; only one assignment/HIT

### Choose a caption for this cartoon

- The New Yorker is a popular magazine known for its cartoons. Each week, they feature a cartoon with three captions, and readers may vote for their favorite.
- The cartoon & captions below were obtained from the New Yorker's [cartoon archive](#).
- Choose your favorite caption from the three options provided.
- Please also answer a few questions, just for demographic information.

### Cartoon:



### Captions: Choose your favorite for the above cartoon.

- ☐ It better work—they sold it to us.
- ☐ If this doesn't work push that boulder and run like hell.
- ☐ Our medicine man went to M.I.T.

Did you find any of the captions funny?

### Demographic Information:

What is your age?

Which of the following best describes your highest achieved education level?

What is the total income of your household?

What country do you live in?

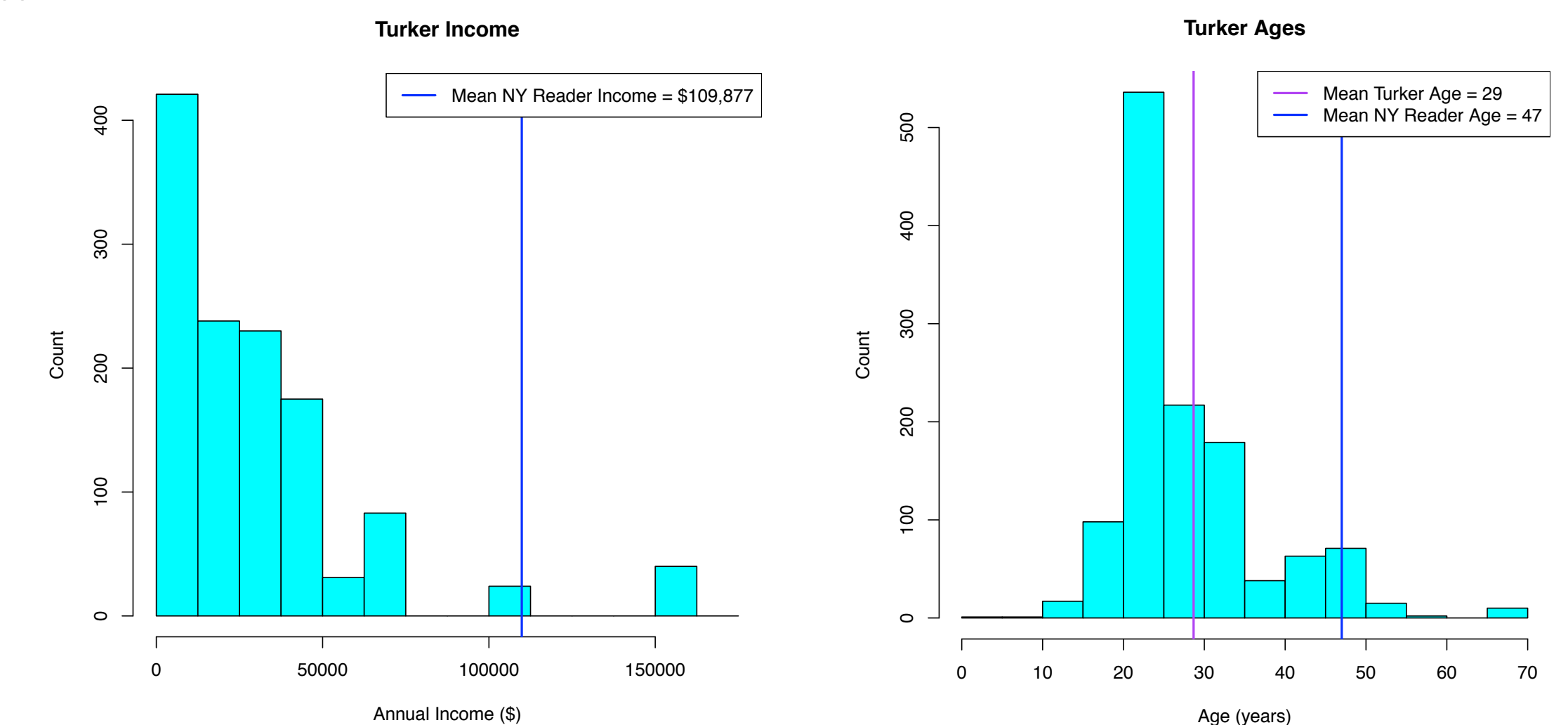
If you're in the USA, what state do you live in?

We value your feedback. How did you like our HIT?

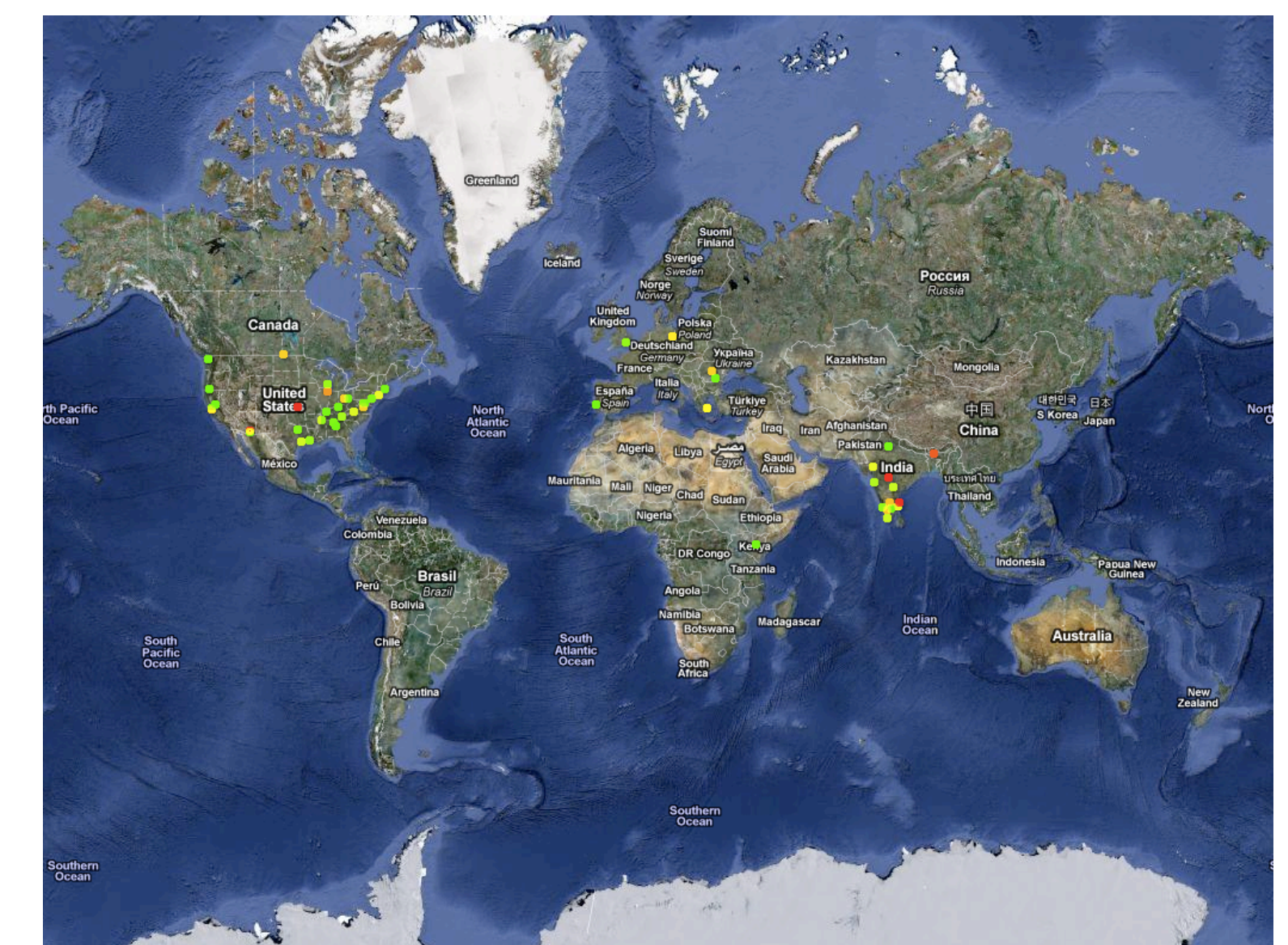
Submit

## Results

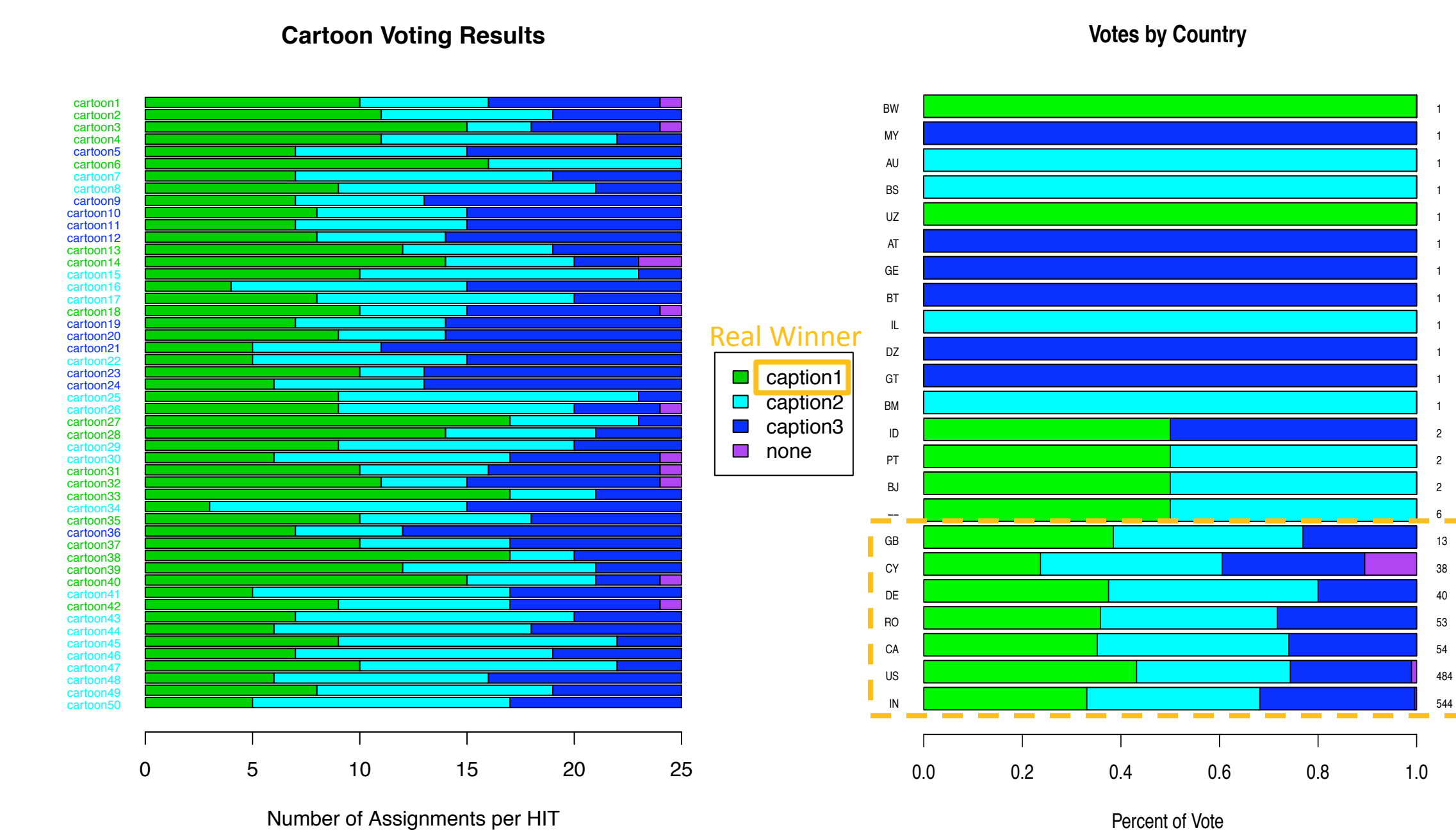
- Batch timing
  - Posted at 10:19am (PST)
  - Completed at 11:03am (PST)
- Batch rewards
  - \$0.05 per HIT (set via Turker Nation)
  - Average hourly rate: \$3.75
- Demographics: Turkers vs. New Yorker readers [data for 2009, from Wikipedia]



- Heatmap of Turker Locations (based on IP)



- Turkers' voting results



caption1: 38%; caption2: 40%; caption3: 22%