Dashboards

DATA SCIENCE FOR BUSINESS



Kaelen Medeiros

Data Scientist at Medidata Solutions



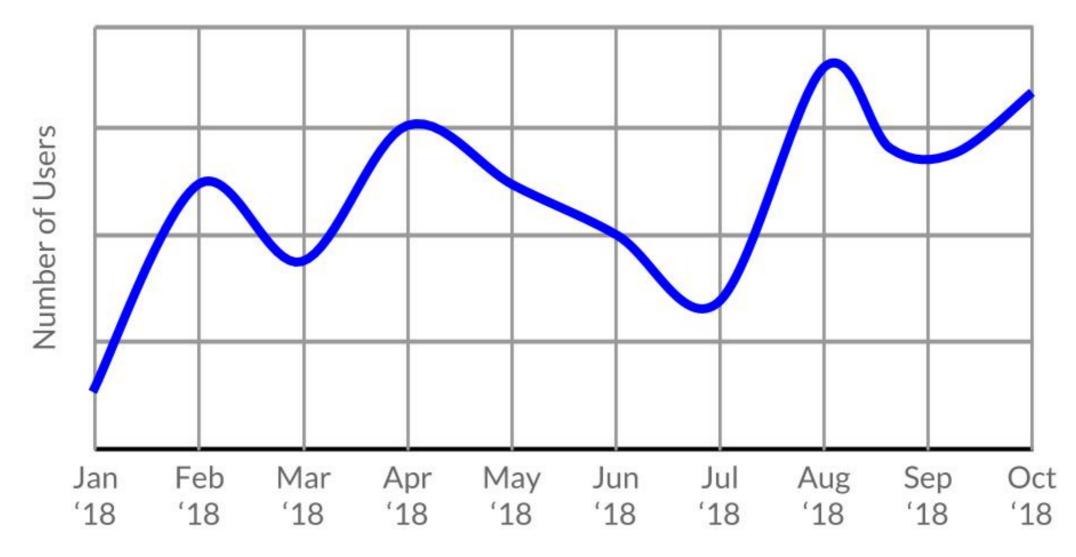
What is a dashboard?



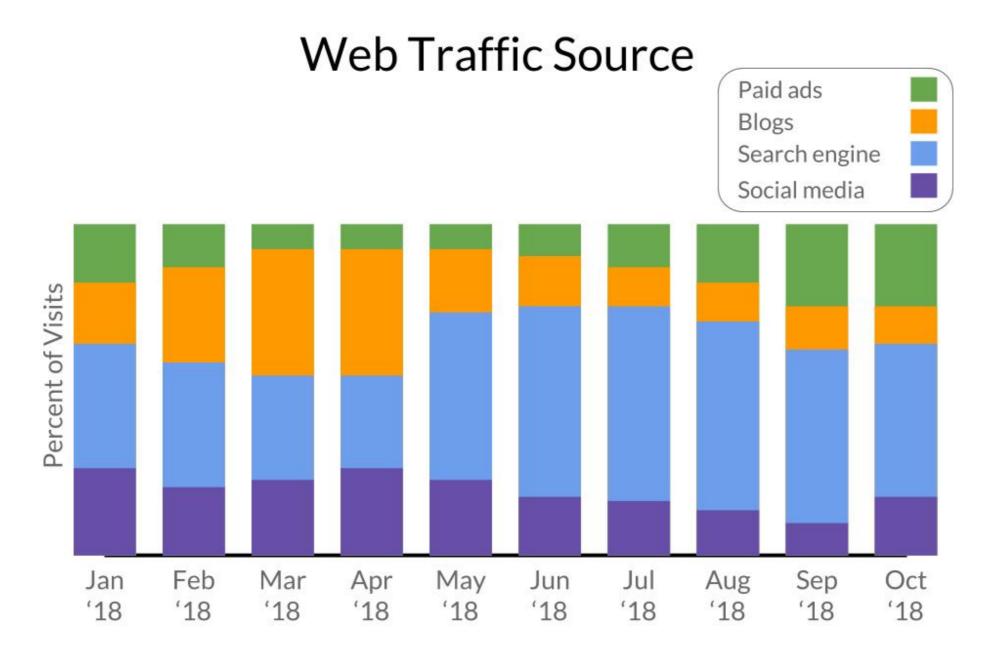


Tracking a value over time

Monthly Active Users



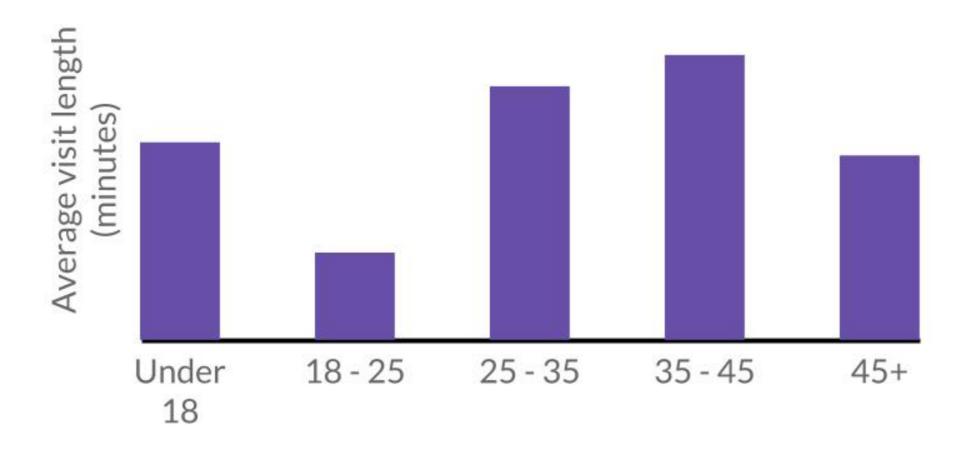
Tracking composition over time





Categorical comparison

Page Visit Length by Age



Data from the past 30 days

Highlighting a single number

3,495,108
visits today
8% from yesterday

Displaying text

Timestamp	Comment
Oct 9, 2018 12:57:05	Awesome website! Loved the new layout.
Oct 10 2018 03:16:00	Had trouble getting the website to load. I couldn't buy my favorite product!



Where can we build a dashboard?

- Spreadsheets: Excel or Google Sheets
- Bl Tools: Power Bl, Tableau, Looker
- Customized tools: R Shiny or d3.js

Be consistent across an organization!

Requesting a dashboard

Is a dashboard the correct solution?

- Will you use it multiple times?
- Does it need to be updated daily or weekly?
- Will the request always be the same?

- Be specific
- Specify your use case

Let's practice!

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Ad hoc analysis

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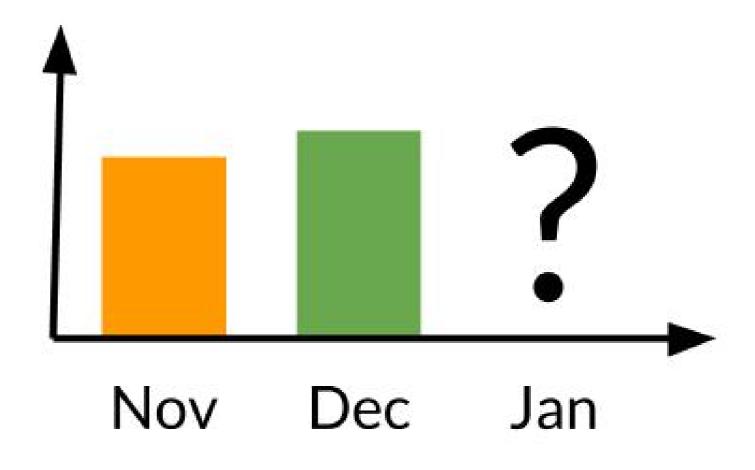
What is an ad hoc request?

- Not repeated on a weekly or daily basis
- Can come from many places
 - Product
 - Finance
 - Engineering



Case study: ad campaign performance



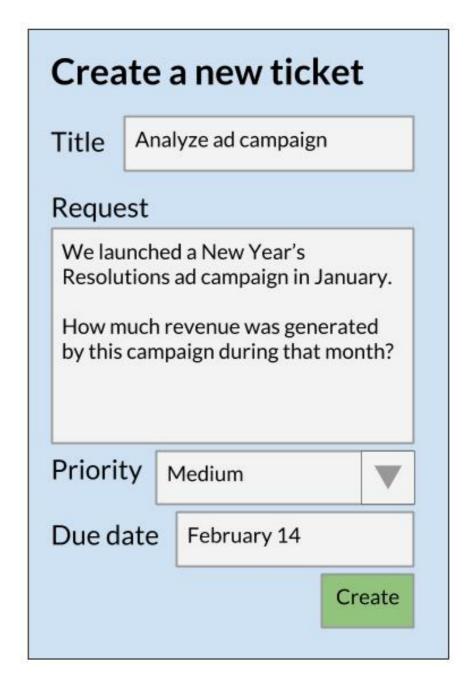


Making an ad hoc request

- Be specific
- Include context
- Include a priority level and due date

Handling ad hoc requests

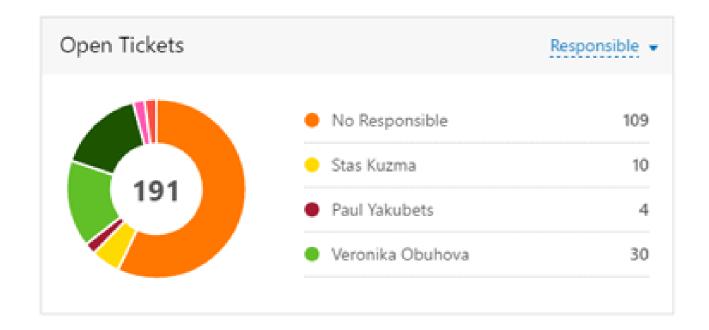
- Ticketing system
 - Ex: Trello, JIRA, Asana
- Require fields
 - Due date
 - Priority

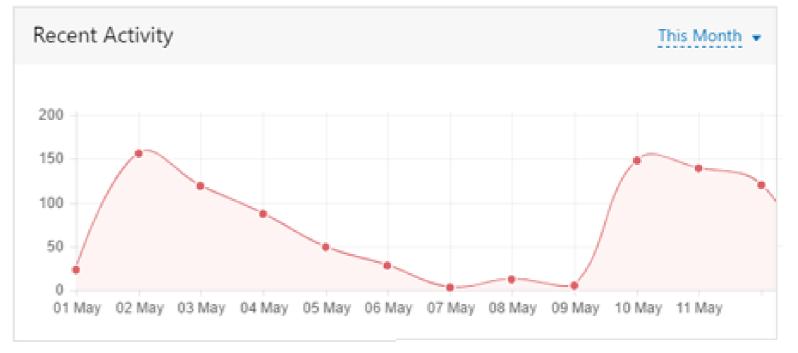


Meta-analysis of Ad Hoc Requests

New Tickets 29 My Assignments

Open Tickets 192 Unassigned Tickets 109





Let's practice!

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A/B Testing DATA SCIENCE FOR BUSINESS

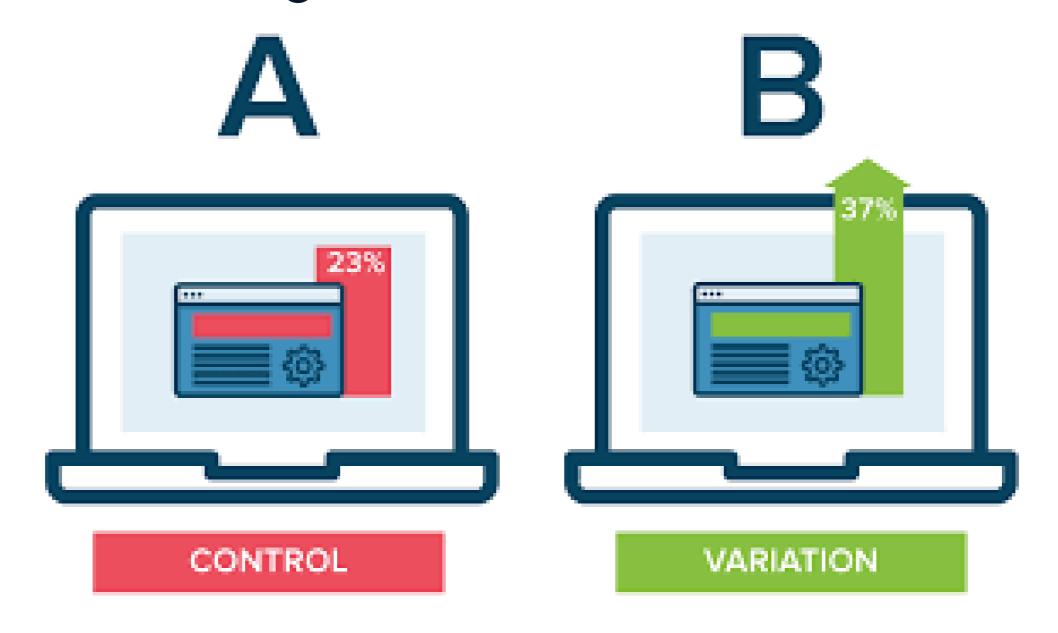


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What is A/B Testing?





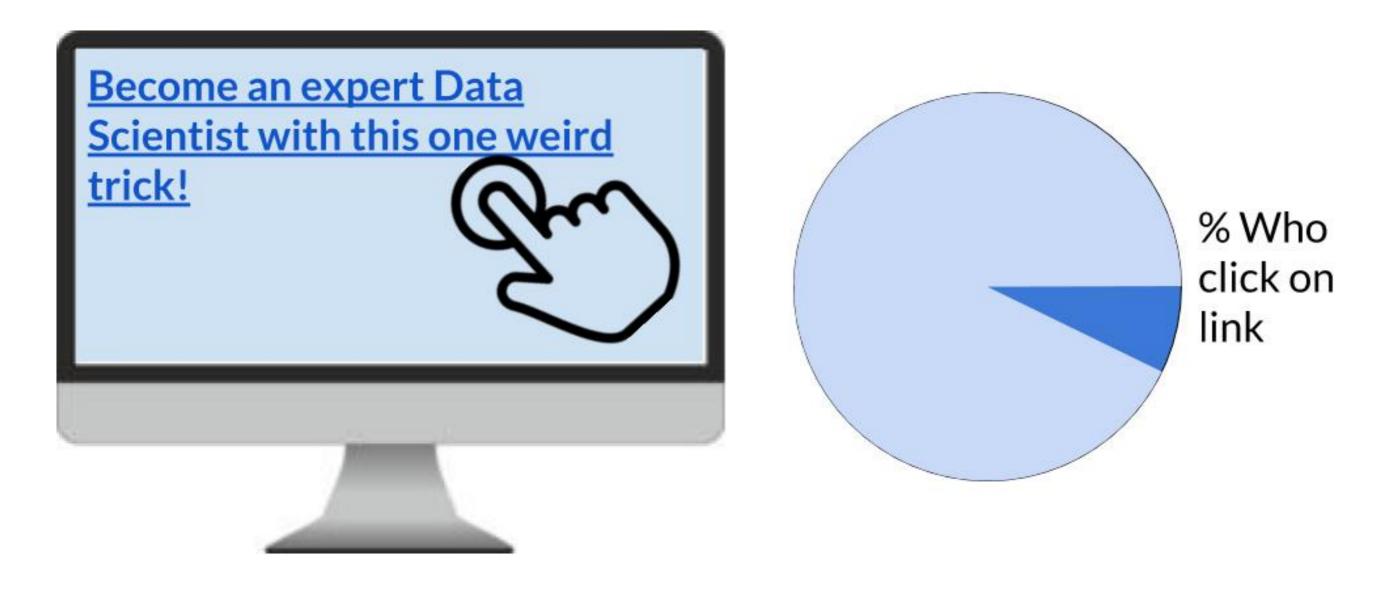
Case study: article headlines

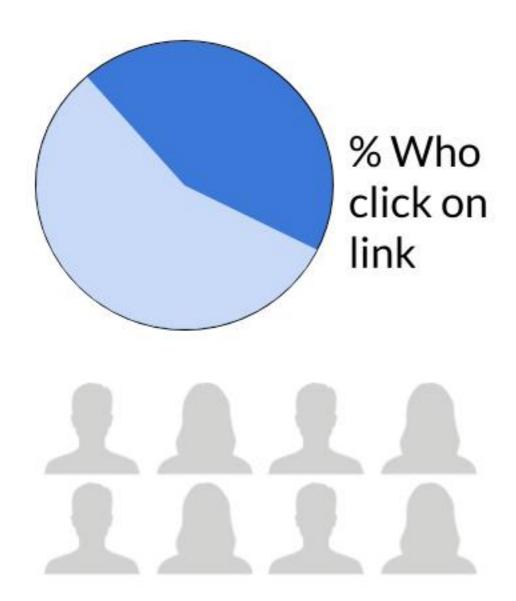
You won't Become an believe these expert Data Scientist with tips for this one weird becoming a **Data Scientist!** trick!

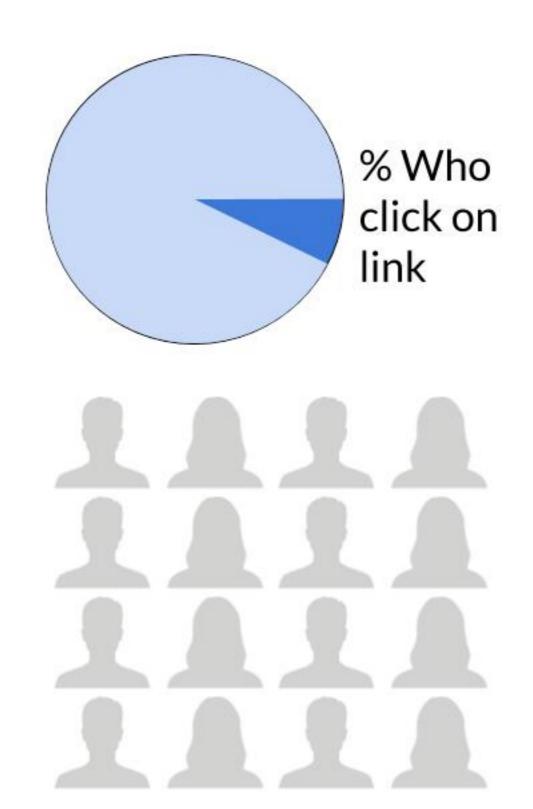
A/B Testing Steps

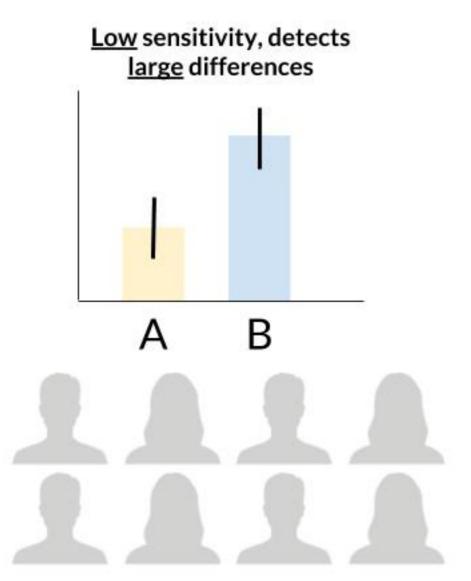
- Picking a metric to track
- Calculating sample size
- Running the experiment
- Checking for significance

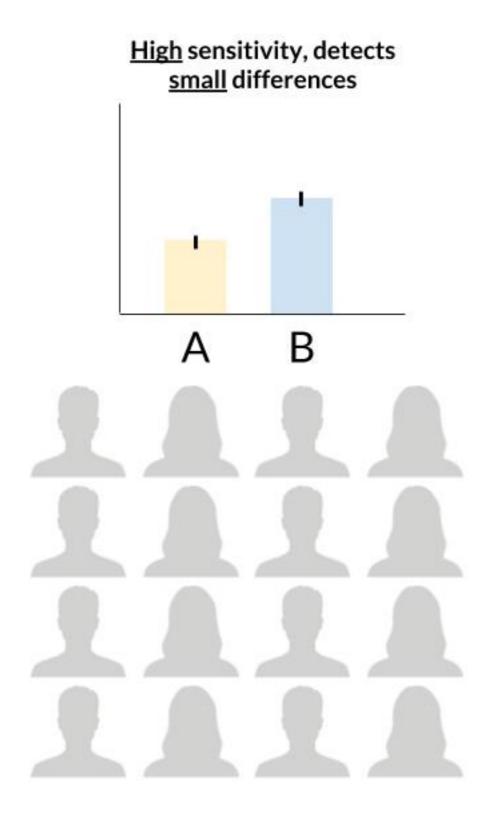
Pick a metric to track





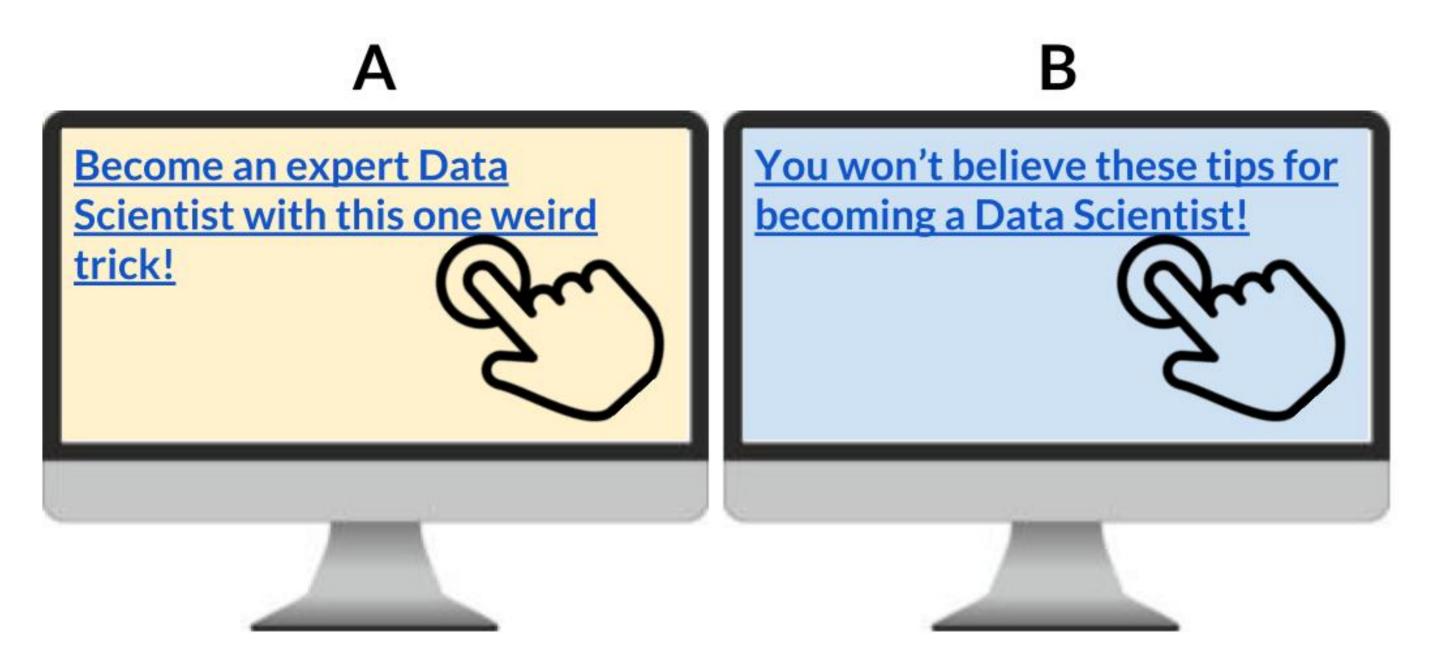




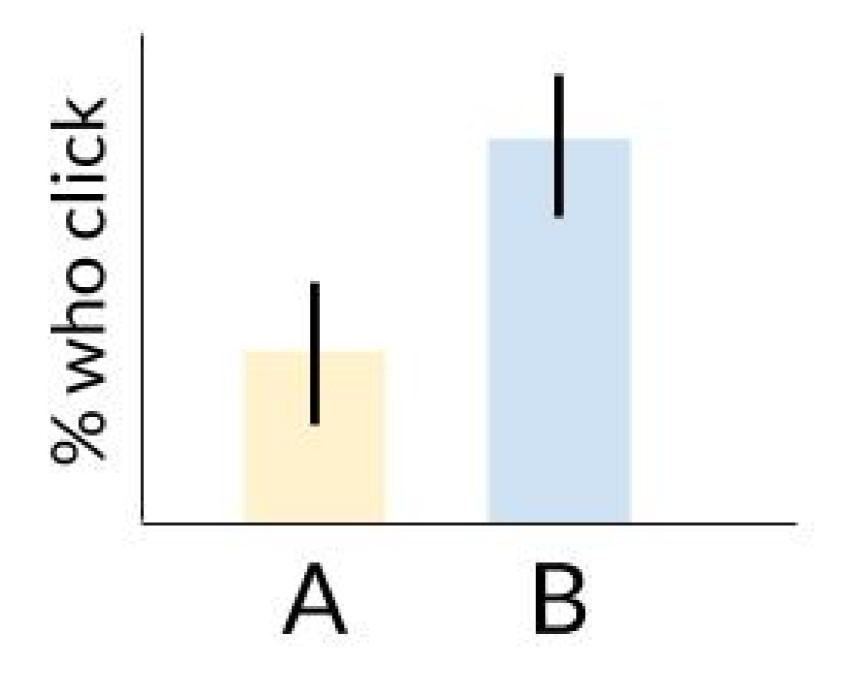




Run your experiment



Check for significance





What if the results aren't significant?

- Difference is smaller than the threshold we chose
- Running our test longer won't help
- Still might be a difference; it's just small

Let's practice!

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