

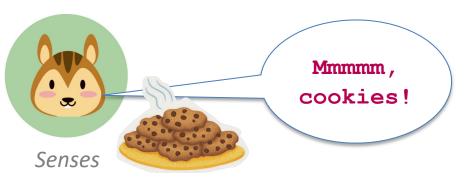
Ethics of Image Manipulation Katie Creel CS106A, Stanford University

Learning Goals

Understanding image idealization
 Understanding image manipulation



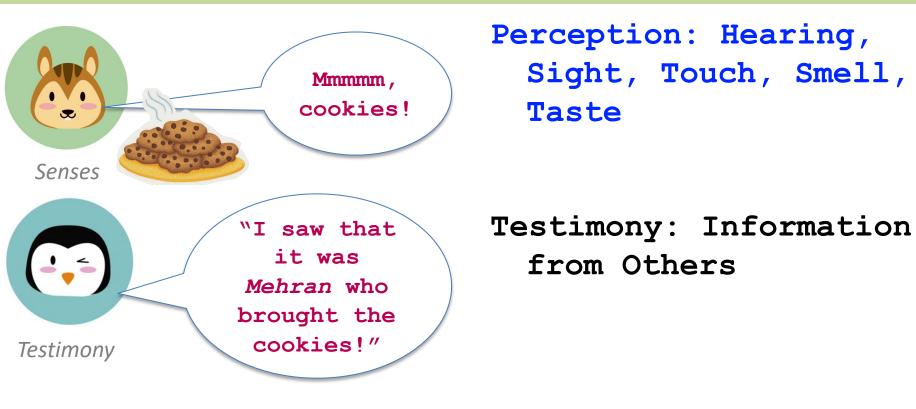
How do we learn (about cookies)?



Perception: Hearing, Sight, Touch, Smell, Taste



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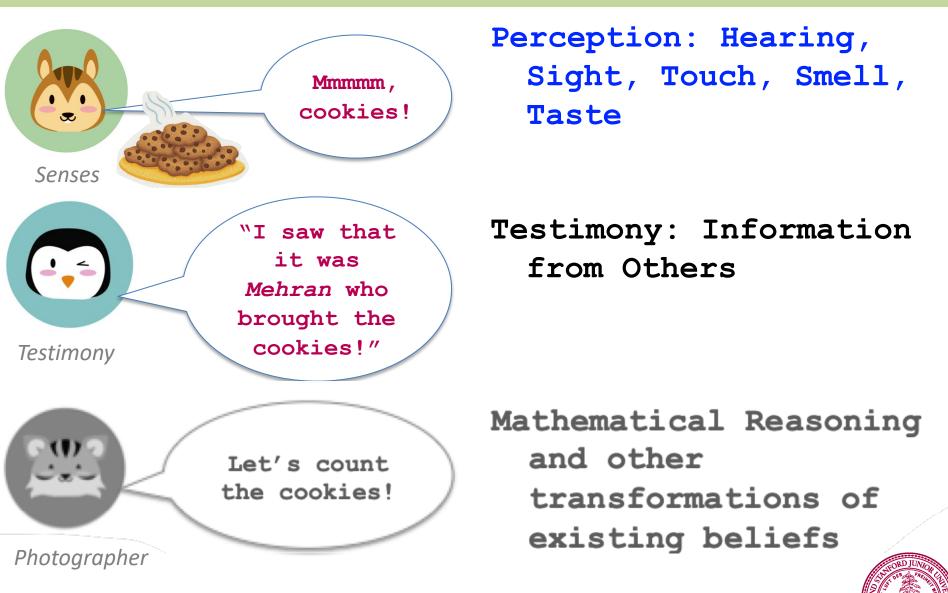
Perception: Hearing, Sight, Touch, Smell, Taste

Testimony: Information from Others

Mathematical Reasoning and other transformations of existing beliefs



How do we learn from photographs?





Are photographs more like perception or testimony?



Evidence from Testimony



Witness



Evidence from Testimony

"I saw that it	Testimonial	Evidence
was Mehran who brought the cookies!"	should be sincere and	competent

Witness



Evidence from Testimony

Norm for Testimonial Evidence:

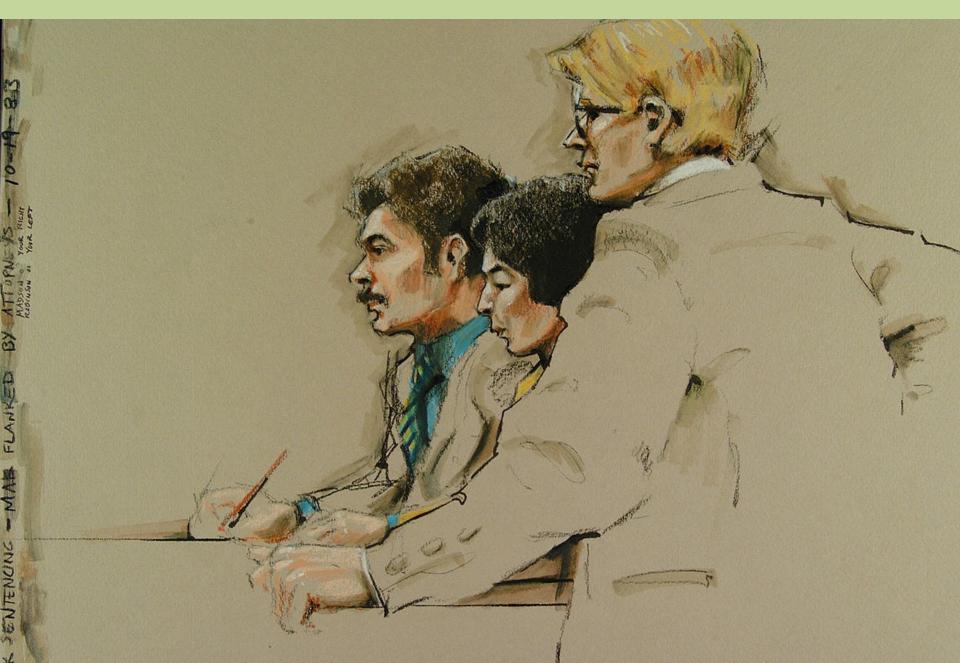
Testimonial Evidence should be sincere and competent



When does an image or recording provide testimony?



Courtroom Illustration as Idealized Testimony



Idealized Visual Testimony



Courtroom Illustrator



Should still be sincere and competent

+ Okay to idealize by highlighting important features and eliminating unimportant ones



Idealized Visual Testimony



Courtroom Illustrator



Should still be sincere and competent

+ Okay to idealize by highlighting important features and eliminating unimportant ones

Scientific Modeler: aka You!

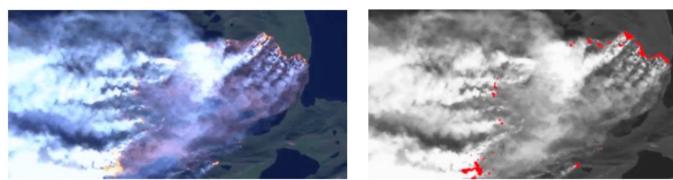


Figure 1: Original forest fire image on left, and highlighted version of image on right.



Idealized Visual Testimony



What makes an altered image trustworthy?

- + Modeler/illustrator should explain
 which idealizations have been made and
 for what purpose
- + This allows the user to evaluate whether the idealizations are appropriate for the stated purpose or whether they are manipulative.



Harm #1: (bad) Manipulation

Manipulation is hidden influence that subverts another person's decisionmaking power (Nissenbaum).

"The manipulative person 'steers' the other as a driver steers an automobile. The automobile is already moving through its own internal combustion engine and momentum, but its direction is influenced by the one who steers it" (Wood).

Images can be powerful tools for manipulation.



Manipulation for Political Effect

The New York Times

Opinion

Vladimir Putin Thinks He Can Get Away With Anything

Why has the poisoning of Alexei Navalny been met with Western silence?

By The Editorial Board

The editorial board is a group of opinion journalists whose views are informed by expertise, research, debate and certain longstanding values. It is separate from the newsroom.

Sept. 22, 2020

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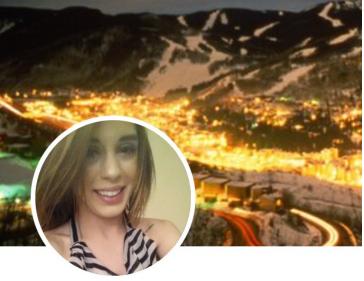
President Vladimir Putin's denials about the poisoning of a Russian politician aren't credible. Alexei Nikolsky/TASS, via Getty Images

Is the manipulation of
 this image "hidden
 influence"?





Manipulation for Political Effect



What about the production of "bots," fake social media profiles created for political influence?

Chloe Evans @ChloeEva12 Student Atlanta Joined June 2014 196 Following 54 Followers

Harm #2: Speaking for Others



Image and audio manipulation can be used to make others appear to say or do things they did not say or do.



Harm #2: Speaking for Others



Contrary to the claims of my opponent, I did NOT steal cookies from little kids in strollers. Even when the video or image is not widely believed to be true, being forced to publically deny a false claim could itself be a harm (Rini)



Your CS106A skills can be used to inform ... or to spread misinformation

How will you use your powers?

THANKS!

Any questions? Meetings: https://calendly.com/kathleencreel Email: kcreel@stanford.edu

