The Data Bias



[Fr]: biais – partialité An inclination toward something, a prejudice or a preference [statistics]: the systematic distortion of data

The Data Bias is often a gender bias



Study Academic Psychologists Gender impact on job candidates



- 71% more chance to hire a man (by both men and women)

- Male CV's were graded higher than female CV's (but were identical)

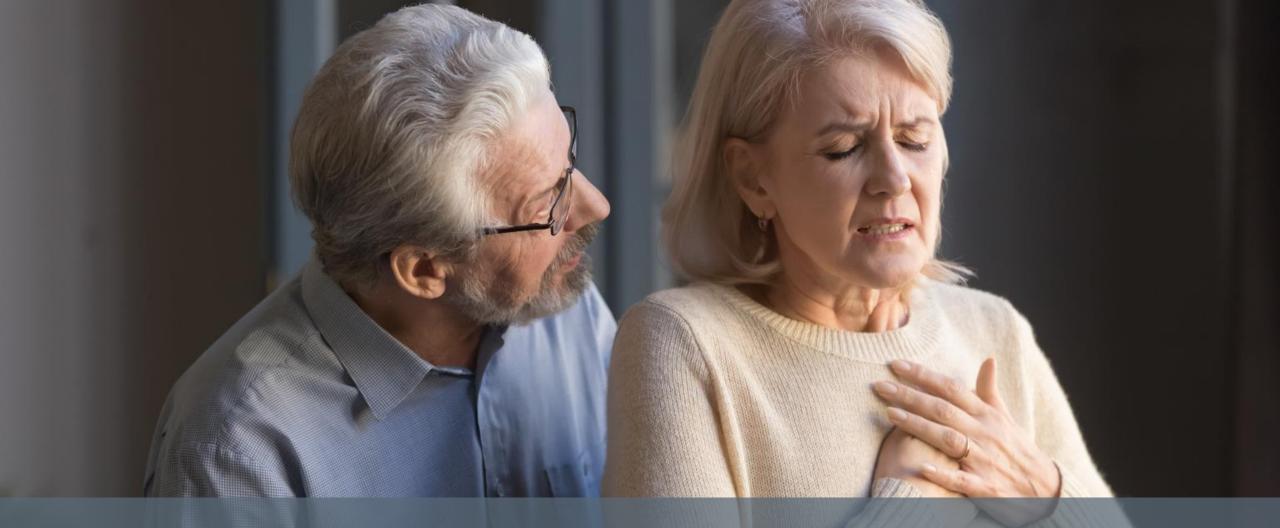
Women are believed to be worse at mathematics than men

Even with a better test result for women,

the employer was still 59% more likely to choose the male candidate







Female Heart attack misdiagnosed



UK healthcare: new program for Heart Attack Prediction

Women:

1

1

17% higher chance to die in car crash 47% higher chance of severe injuries

New medicine: tested primarily on male animals (and men)



NASA's spacewalk by 2 women

POLCE

UK's armored vests



Speech recognition

70% more likely to understand male voices





Smartphones & the female hand





UBER's self driving car

Let's play a game...





U+1F3C3 ("Runner")











apple

google

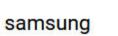
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mozilla



U+1F575 ("Spy")



apple



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U+1F483 ("Dancer")





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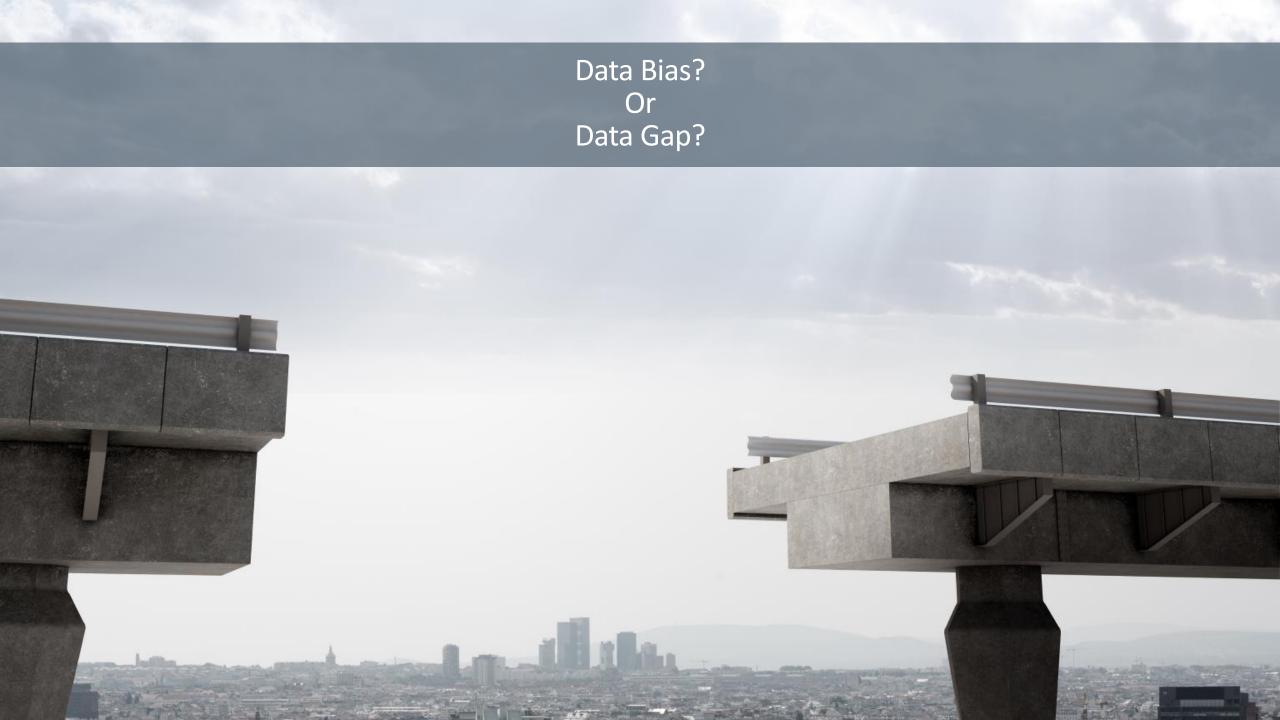
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Visual Attention Pattern



Visual Attention Pattern







Biased reinforced by AI

Solutions

(1) Recruit (more) women

Individual interviews: 51% underperforms Group interviews: 8% underperforms

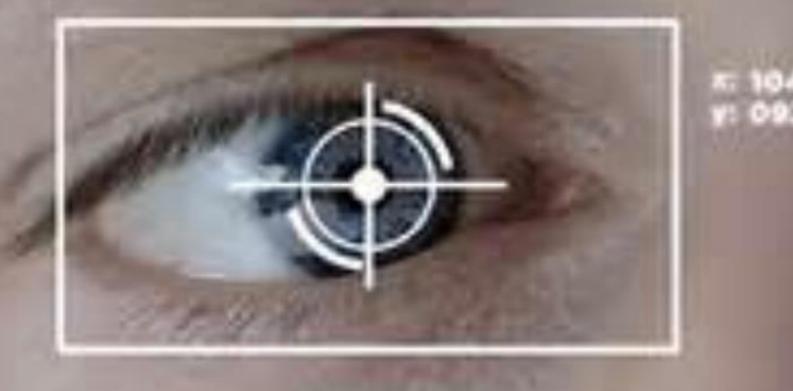


(2) Crowd Testing

ISO/IEC 25010

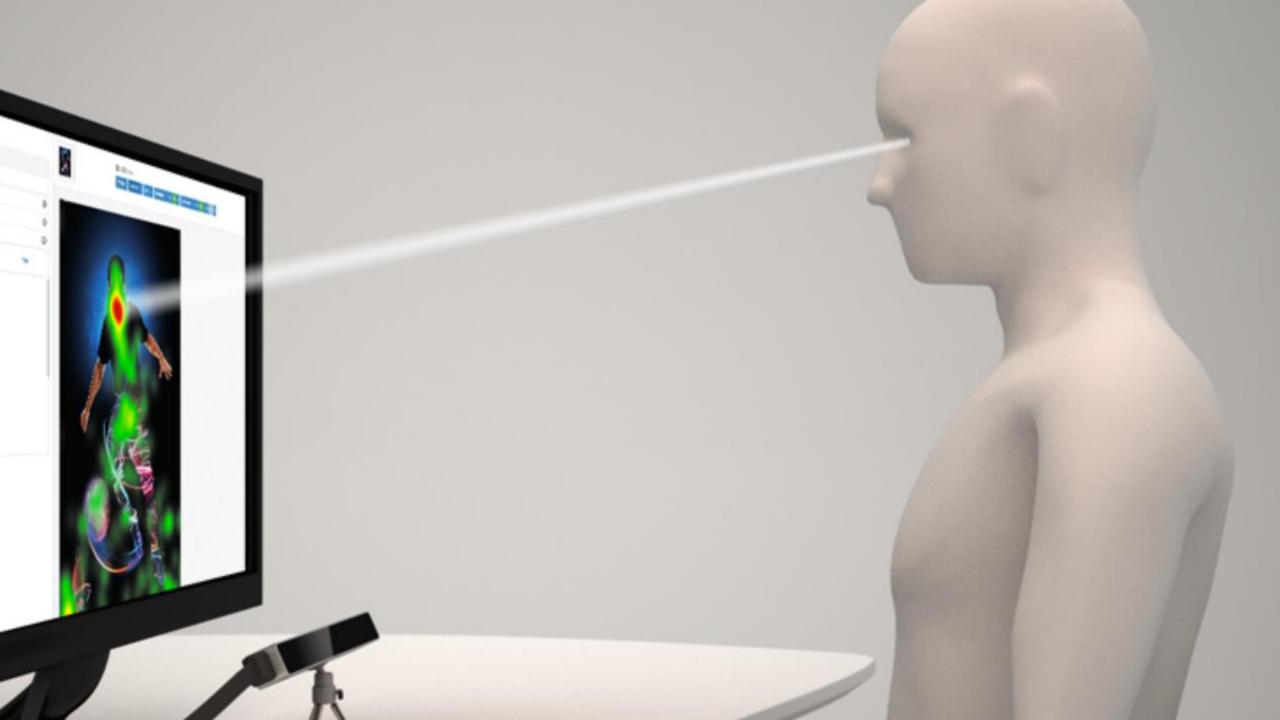
(3) Go beyond the standard(s)

STANDARD



(4) Heat Maps & Eyetracking











Ersra-gentle for the most sensitive skin.

a solution hanna

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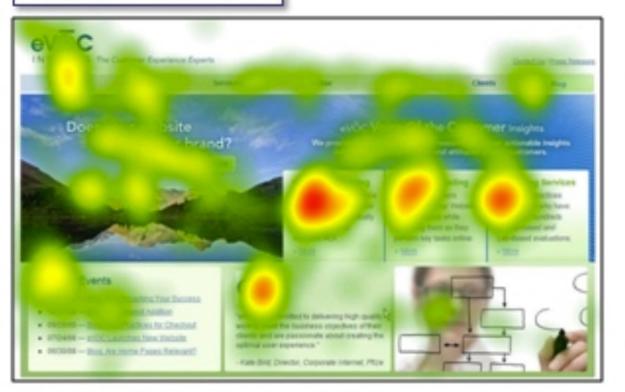


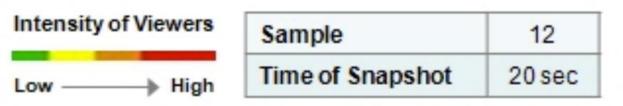




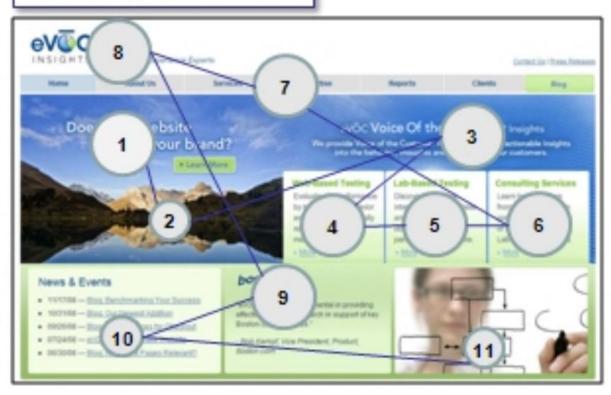
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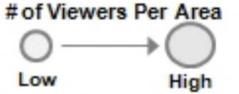
Aggregated Heat Map





Chronological Gaze Plot





Sample	12
Avg. Time on Page	20 sec

(5) Persona Based Testing



Clark Andrews





"I feel like there's a smarter way for me to transition into a healthier lifestyle."

Motivations

Incentive	
Fear	
Achievement	
Growth	
Power	
Social	

Goals

- To cut down on unhealthy eating and drinking habits
- · To measure multiple aspects of life more scientifically
- · To set goals and see and make positive impacts on his life

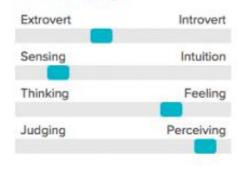
Frustrations

- · Unfamiliar with wearable technology
- Saturated tracking market
- Manual tracking is too time consuming

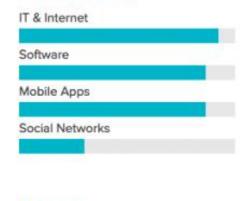
Bio

Aaron is a systems software developer, a "data junkie" and for the past couple years, has been very interested in tracking aspects of his health and performance. Aaron wants to track his mood, happiness, sleep quality and how his eating and exercise habits affects his well being. Although he only drinks occasionally with friends on the weekend, he would like to cut down on alcohol intake.

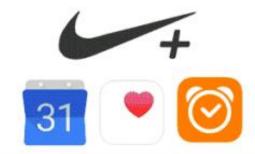
Personality

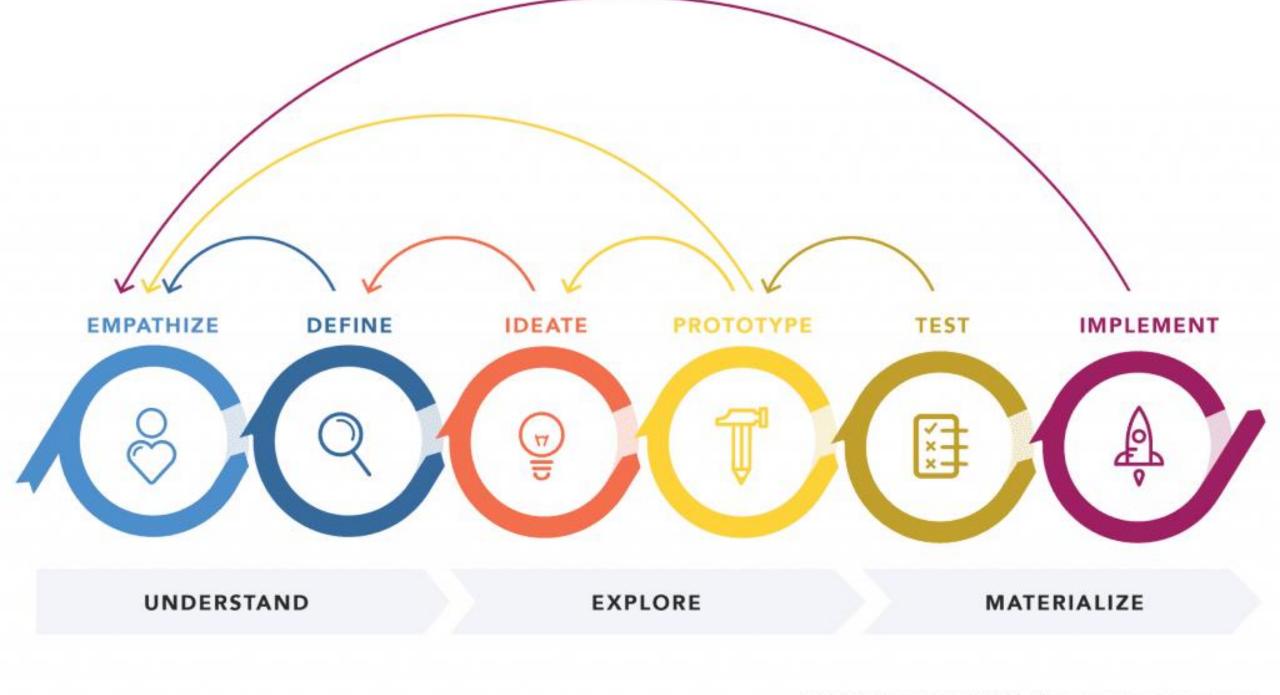


Technology



Brands





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(1) Bias Awareness

