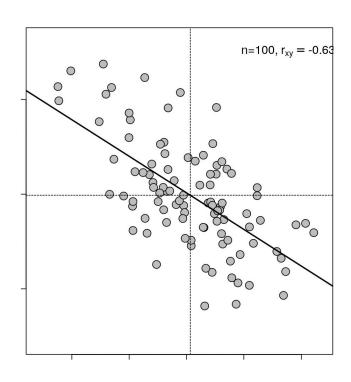
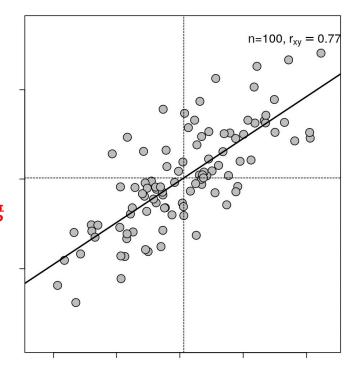
Fundamentals of Econometrics Models



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AI - Every action leaves a digital trail









Carlos Carrasco-Farré – Business Analytics & Decision Making

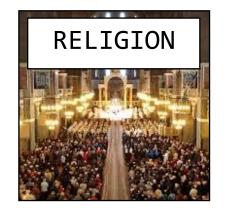
Data Brokerage and Consumers

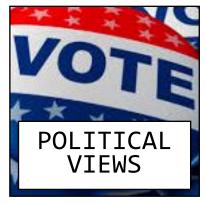
The profiles that data brokers have on individuals include :













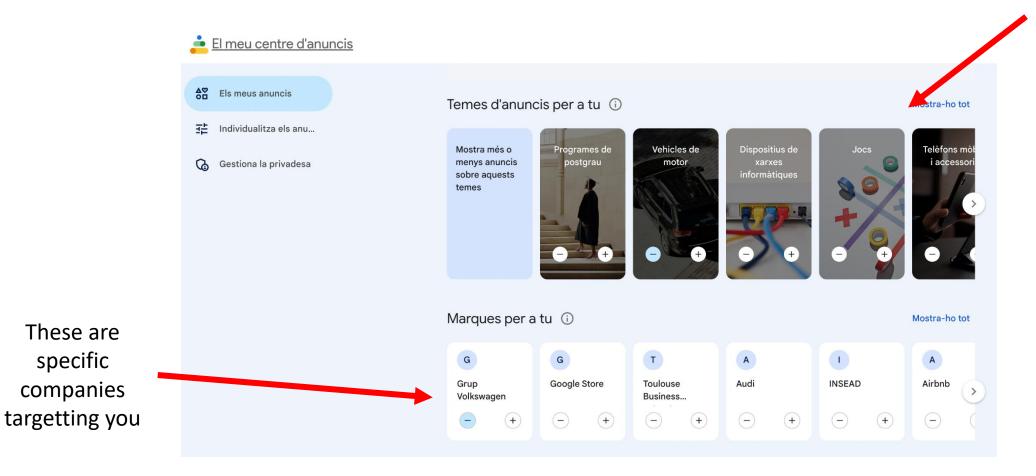




WHAT GOOGLE KNOWS ABOUT YOU?

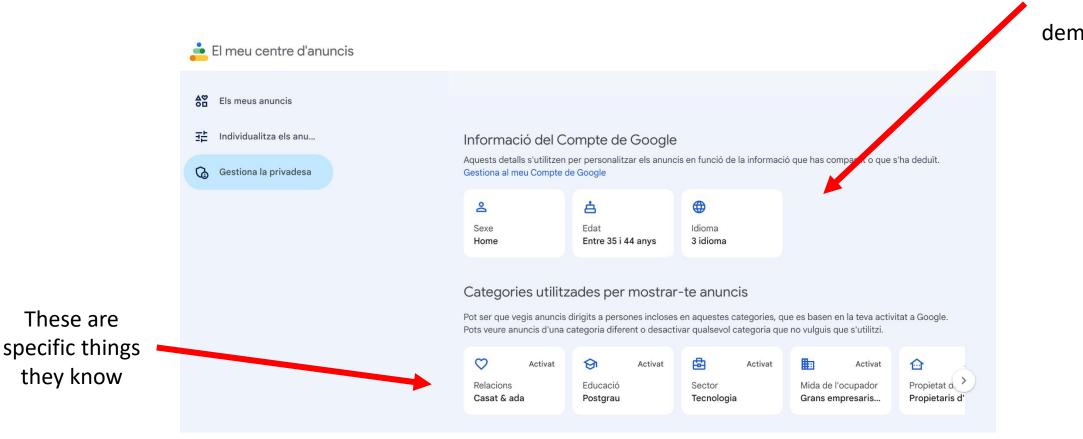
https://adssettings.google.com

WHAT GOOGLE KNOWS ABOUT YOU?



These are the topics they target you with

WHAT GOOGLE KNOWS ABOUT YOU?

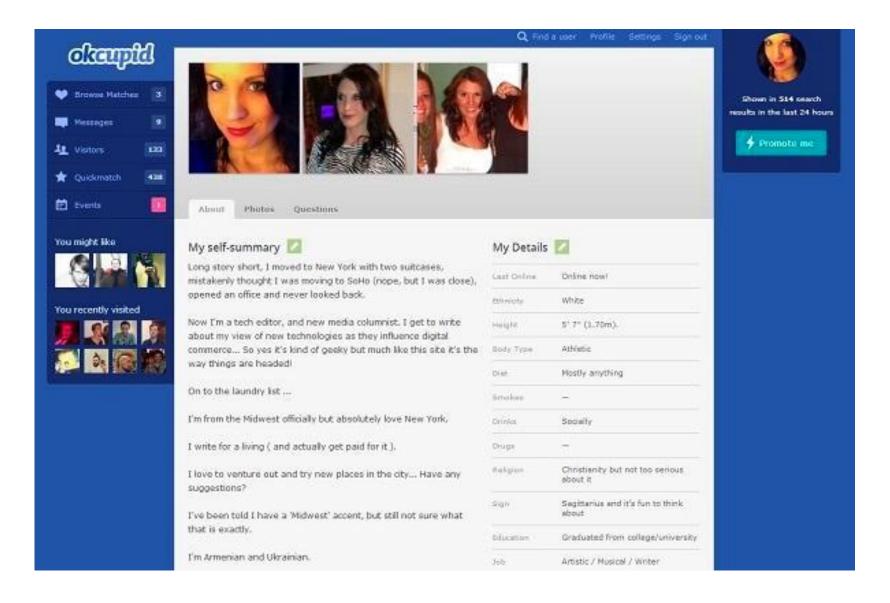


These are some demographics

Big Data - Data Brokerage and Consumers

This huge amount of information let us know (almost) everything about people.

Even when they lie.



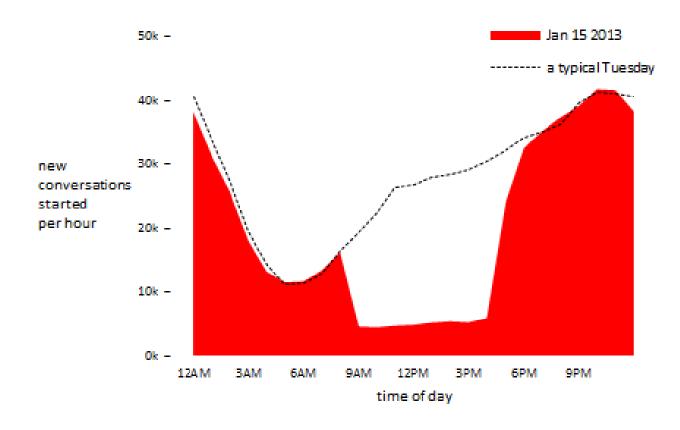
To celebrate the app's 10th aniversary, they removed all the pictures from OkCupid.

They called it:

"Love Is Blind"

Can you guess what happened when OkCupid turned down all photographs?

All their site metrics were way down during the "celebration", for example:



But by comparing Love Is Blind Day to a normal Tuesday, they learned some very interesting things. In those 7 hours without photos:

- people responded to first messages 44% more often
- conversations went deeper
- contact details (phone numbers, emails) were exchanged more quickly
- in short, OkCupid worked better

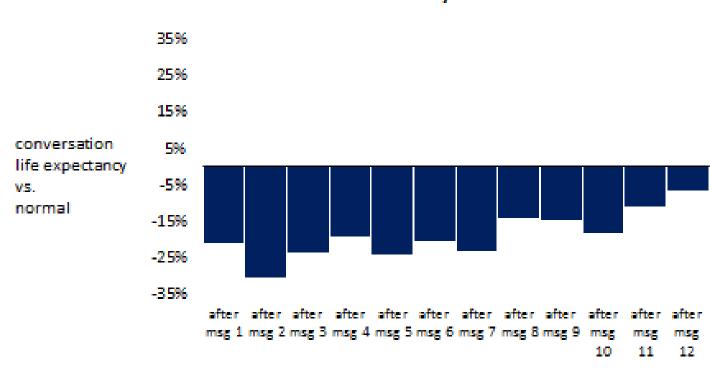
And it wasn't that "looks weren't important" to the users who'd chosen to stick around.

When the photos were restored at 4PM, 2,200 people were in the middle of conversations that had started "blind"

What happened with these conversations when the photos came back at 4pm?

Those conversations melted away:

What happened to conversations in progress at the end of Love Is Blind Day



where in the thread the photos came back on

What happened to conversations in progress at the end of Love Is Blind Day

35%

It was like turning on the bright lights at the disco at 3am.

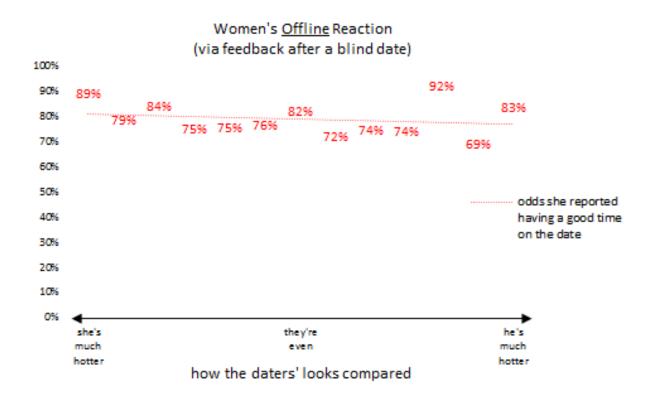
-2 5%

-35%

after msg 1 msg 2 msg 3 msg 4 msg 5 msg 6 msg 7 msg 8 msg 9 msg msg msg msg 100 11 12

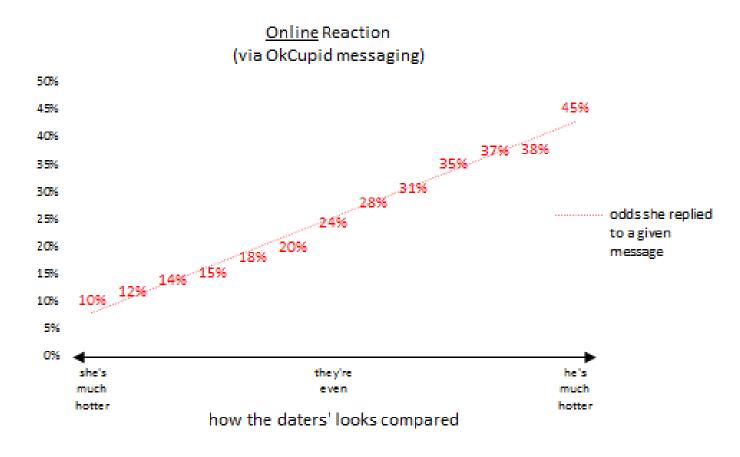
where in the thread the photos came back or

And what about women who actually used the blind date app? Any guess?



Once they got to the date, they had a good time more or less regardless of how good-looking their partner was.

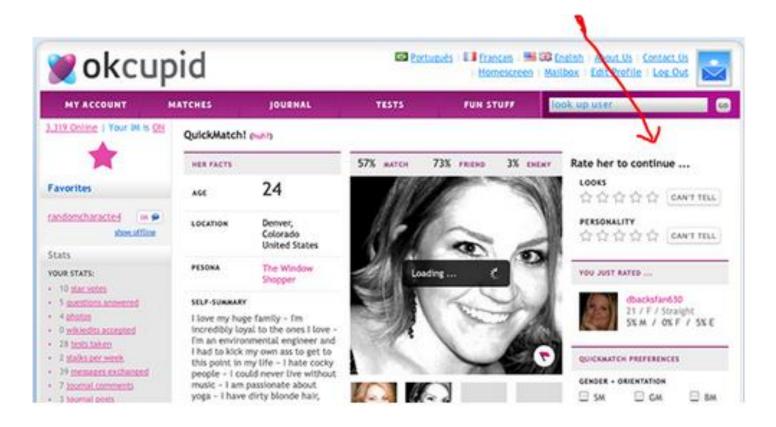
But, what happened to women when OkCupid "turned on the lights" (gave back the photographs)?



Basically, people are exactly as superficial as their technology allows them to be.

RATING SYSTEMS AT OkCupid

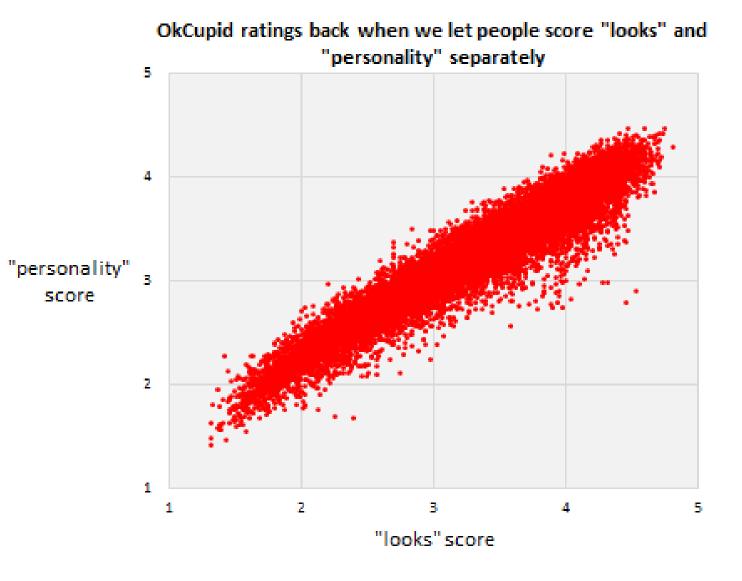
All dating sites let users rate profiles, and OkCupid's original system gave people two separate scales for judging each other, "personality" and "looks."



The idea was that a person might not be classically gorgeous or handsome but could still be cool.

DO YOU THINK IT WORKED?

The two scores are within a half point of each other for 92% of the sample after just 25 votes (and that percentage approaches 100% as vote totals get higher).



In short, according to OkCupid data, "looks" and "personality" were the same thing, which of course makes perfect sense because, you know, this young female account holder, had a 99% positive rates in personality.



CAN YOU GUESS THE DESCRIPTION, HOBBIES OR INFORMATION IN THE PROFILE PAGE?

NOTHING



So, your picture is worth thousand words...

but your words are worth almost nothing.

OkCupid - The Big Lies People Tell

In online dating, where the whole goal is to eventually meet other people in person, creating a false impression is a problem.

Do you think that situation prevents people from lying in dating websites?



Lets talk about...

TINDER

People do everything they can in their Tinder profiles to make themselves seem awesome.

With behind-the-scenes perspective (data), we're able to shed some light on some typical claims and the likely realities behind them.



"I'm 1.9 meters tall."

REALITY?

Do taller guys have more sex?

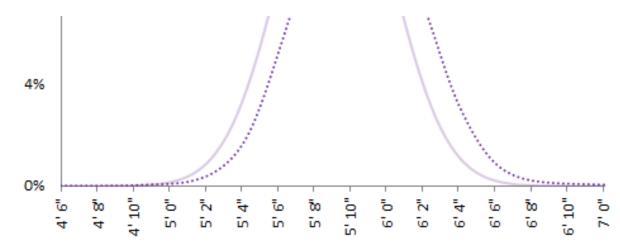
Male Height Distribution On Tinder

The answer to a degree Tinder men Almost universally guys like to add

a couple centimeters.

16%

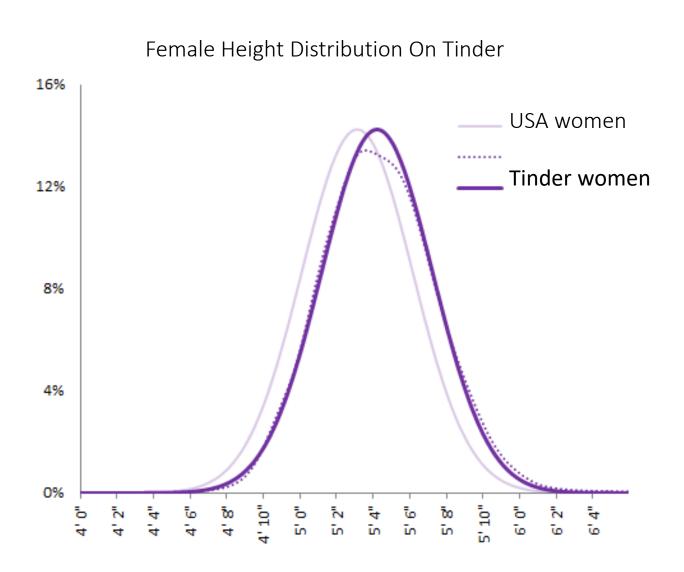
was more interesting than the sex was the (supposed) tallness of the guys.



USA men

What about looking at women data? Height exaggeration is just as widespread?





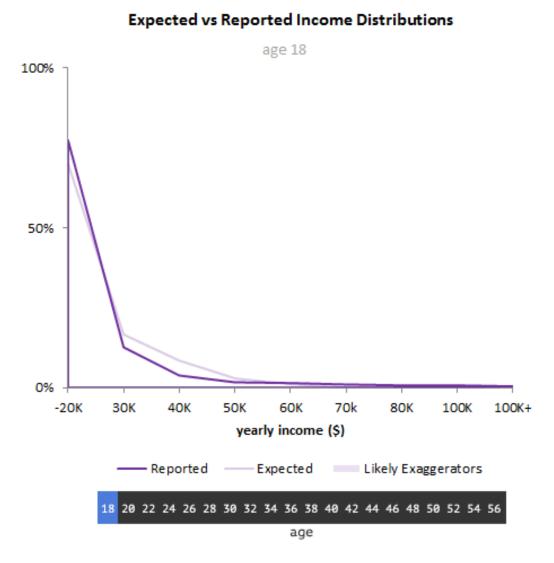
"I'm 1.9 meters tall."

REALITY: People are 10 centimeters shorter in real life.

"I make \$100,000 a year."

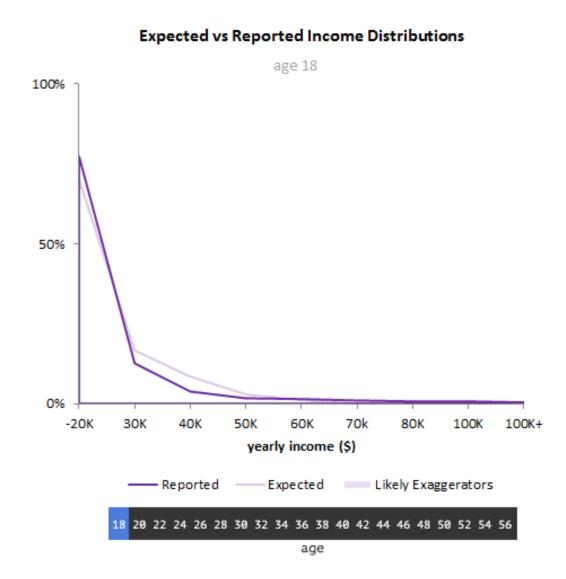
REALITY?

Here's what people are saying on Tinder, versus what their incomes should be:



Look at the graph to watch as people exaggerate more as they get older.

As you can see, people advertise disproportionately high salaries for themselves.



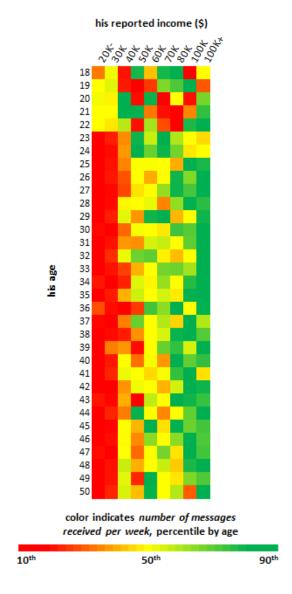
Do you think that a person's stated income has any real effect on his or her online dating?

It matters a lot, particularly for men.

This is a by-age messaging distribution.

Can you spot an interesting age pattern?

How Many Messages a Man Gets, By Age & Income

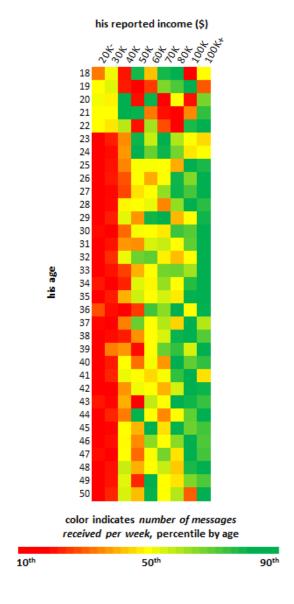


If you're a young guy and don't make much money, cool.

If you're 23 or older and don't make much money, go die in a fire.

It's not hard to see where the incentive to exaggerate comes from.

How Many Messages a Man Gets, By Age & Income



"I make \$100,000 a year."

REALITY: People are 20% poorer than they say they are.

"Here's a recent pic."

REALITY?

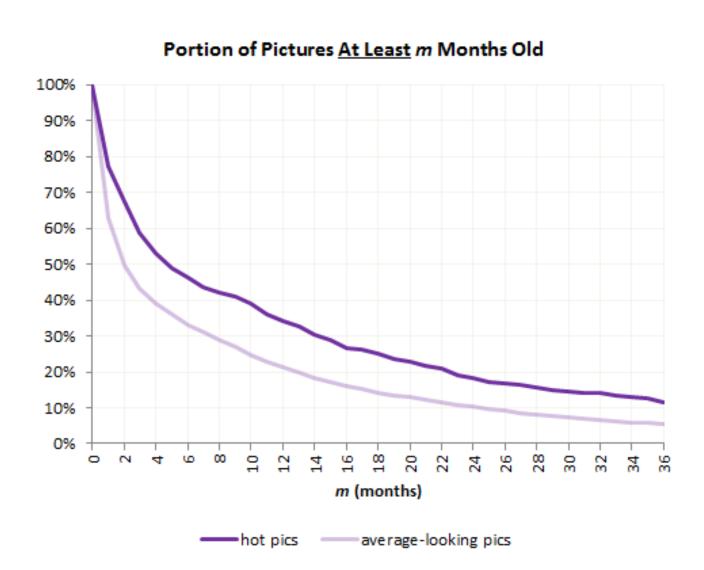
The below picture, for example, was over two years old when it was uploaded. How do they know?

Most modern cameras append text tags to the jpgs they take. These tags, called EXIF metadata, specify things like the exposure and f-stop settings, gps information if your camera has it, and, of course, the time and date the photo was taken.



Analyzing this stuff, they can find out that most of the pictures on Tinder were of recent vintage; site-wide the median photo age at upload was just 92 days.

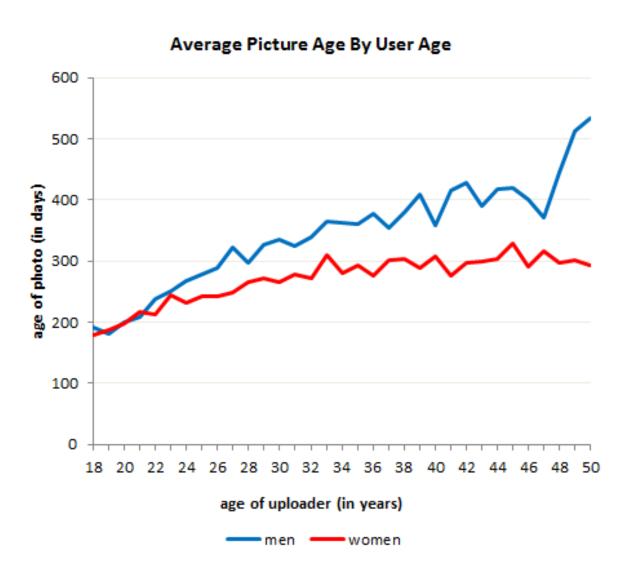
However, hotter photos were much more likely to be outdated than normal ones.



What is the effect of age on uploading new/old photos?

It also turns out that older people also upload older photos.

The upshot here is, if you see a good-looking picture of a man over 30, that photo is very likely to be out-of-date.



"Here's a recent pic."

REALITY: The more attractive the picture, the more likely it is to be out-of-date.

ALWAYS REMEMBER:

COMPANIES TRUST IN YOUR DATA NOT ON WHAT YOU SAY

TODAY WE WILL PRACTICE WITH





TODAY WE WILL PRACTICE WITH



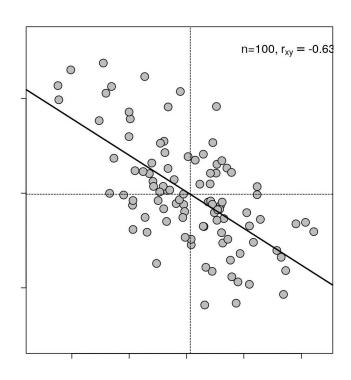


AND



Carlos Carrasco-Farré – Social and Ethical Implications of Big Data

Fundamentals of Econometrics Models



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