

# Sketches: recognition, matching and retrieval

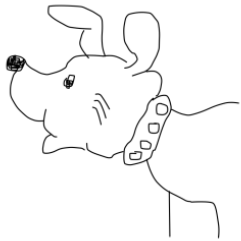
Yi-Zhe Song

# Sketches: recognition, matching and retrieval

Fun

Serious

Shopping



Why *sketches*?

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**Touch screen?**

**We are living in the era of touchscreens!**



**Where is the mouse**

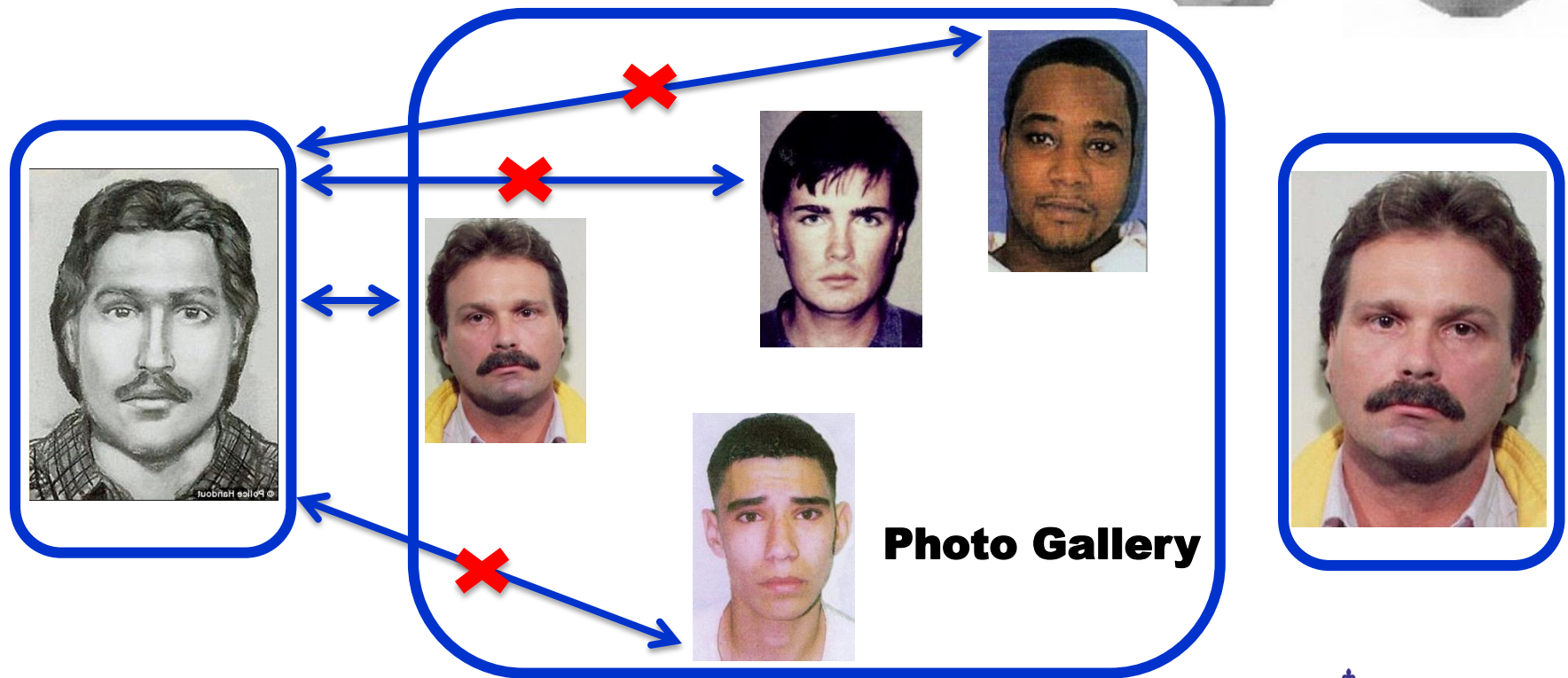
# What can we do with *sketches*?

- Something **fun** – try demo!
- Draw Something<sup>©</sup> ++
  - similar to Draw Something<sup>©</sup>  
(**100 Million downloads** by Feb 2013)
  - we train **computers** to **automatically guess** what you sketched
  - our computer guesses **better than human!**



# What can we do with *sketches*?

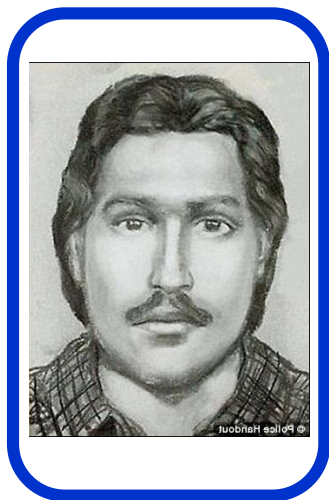
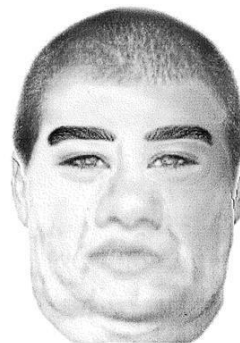
- Something **serious**
  - forensic sketches



# What can we do with *sketches*?

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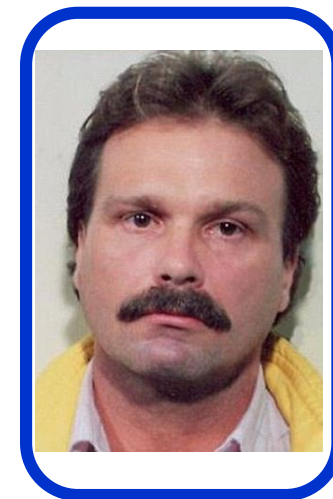
- Something **serious**
  - forensic sketches



**Ours: 59%**



**Police: 23%**



# What can we do with *sketches*?

- Something **for online shopping**
- Find “that” pair of shoes

- Ask Google!
  - hard to describe in text
- Sketch It!
  - a sketch speaks for a “hundred” words!

“high heel shoes  
with open toe-cap,  
white dots all over  
and one knot on  
top”

