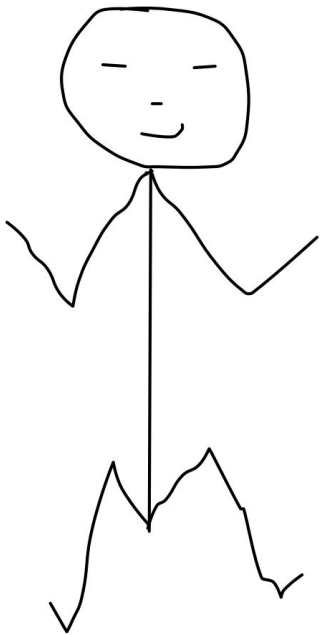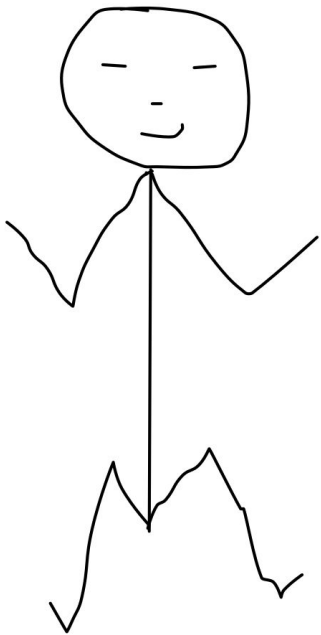# Understanding Sketches

My Research Topic !

~ Ameya Prabhu

Are Sketches Different Than Images / reality ?

What's that on the left?

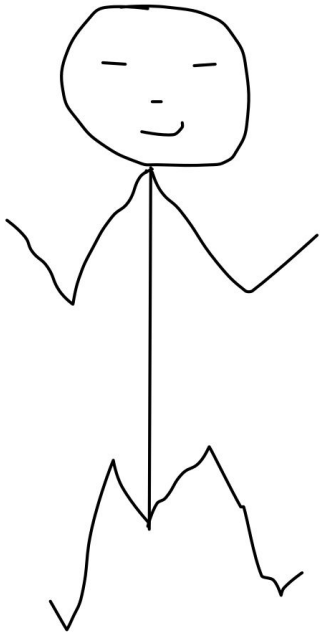# Are Sketches Different Than Images / Reality ?

What's that on the left?

A Human! Correct!

Interesting, right?
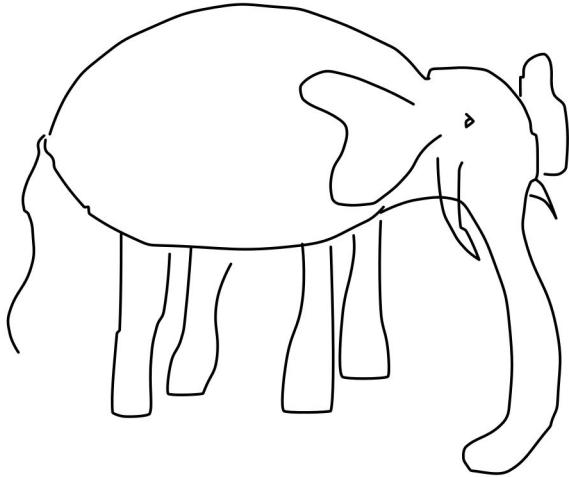You knew that in an instant!
How did you know that?

We Cannot Represent Sketches as Edges Of Objects!

Ethiz etal. in their Paper 'How do Humans sketch Objects?' have described many fallacies in representing sketches as edges of objects.
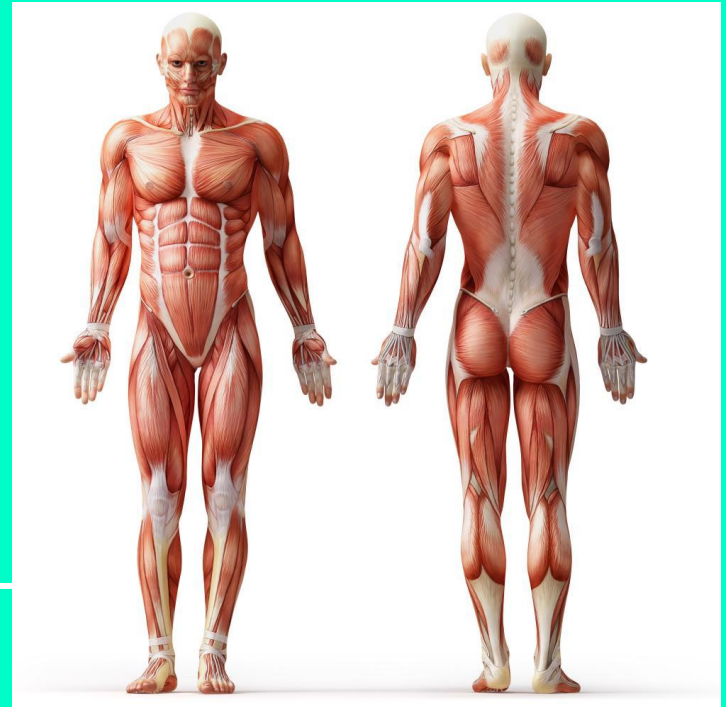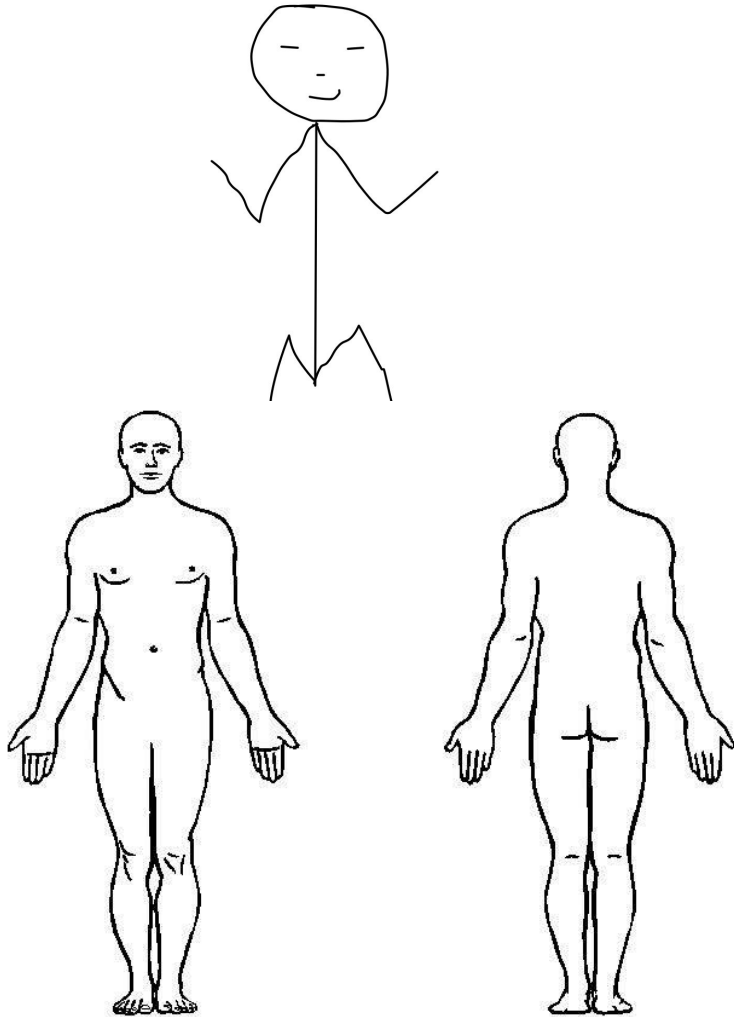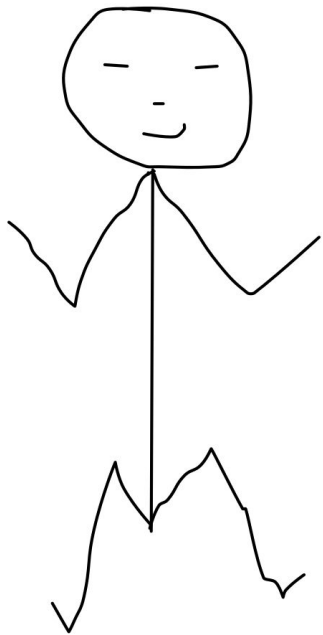
Discovery #1

Sketches are Over-exaggerated!

Discovery #2

Sketches are Very Iconic!

A theory of
How Humans Sketch
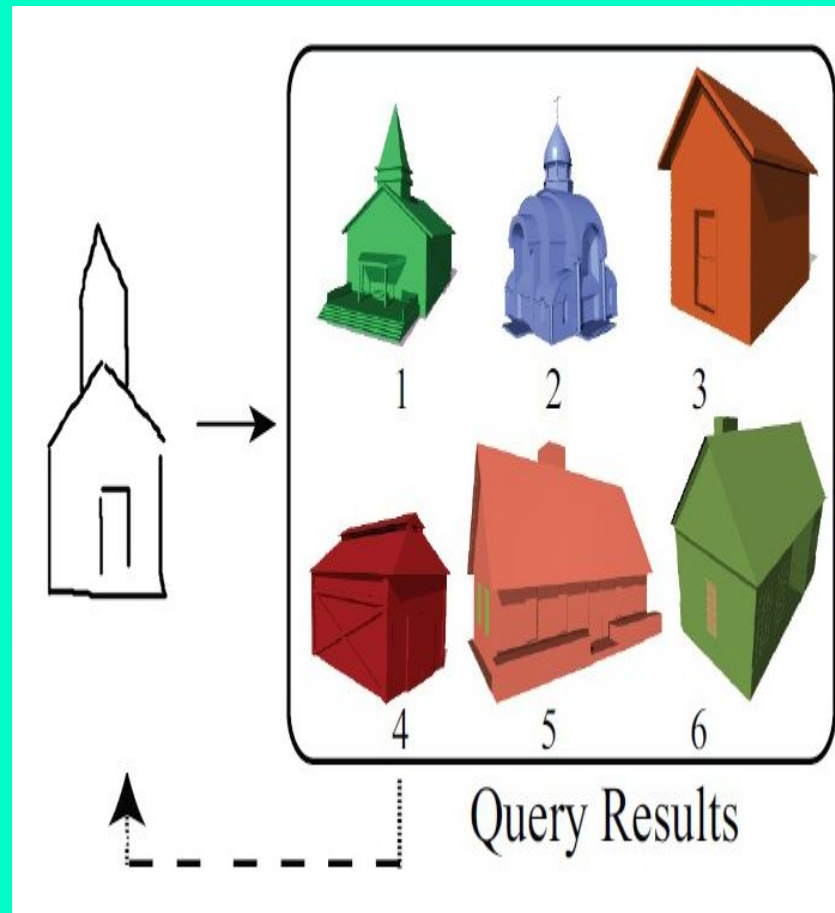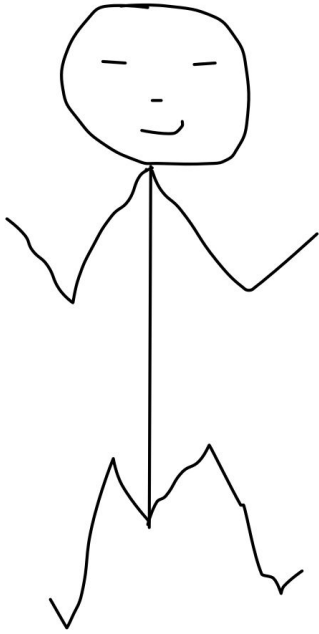is needed !

This is my aim in research!

The GOAL

Everyone is not an artist to generate realistic images, but everyone can make a rough sketch of the object they are thinking of.

Even today, sketching is possibly the only rendering technique readily available to all humans.

Hence, given a free-hand sketch of an object, we try to represent them in a better space.

This is academically better known as 'Mapping Sketches to Latent Semantic Spaces'

Query Results

THANK YOU!

This work is still in its preliminary stages.
I had an Oral Presentation in ACPR on SBIR on this, achieving excellent initial results!

Now is the time to incorporate this new representation!
If you are interested in working on this topic, let's collaborate, discover this field better !

I AM STILL A NEWBIE !