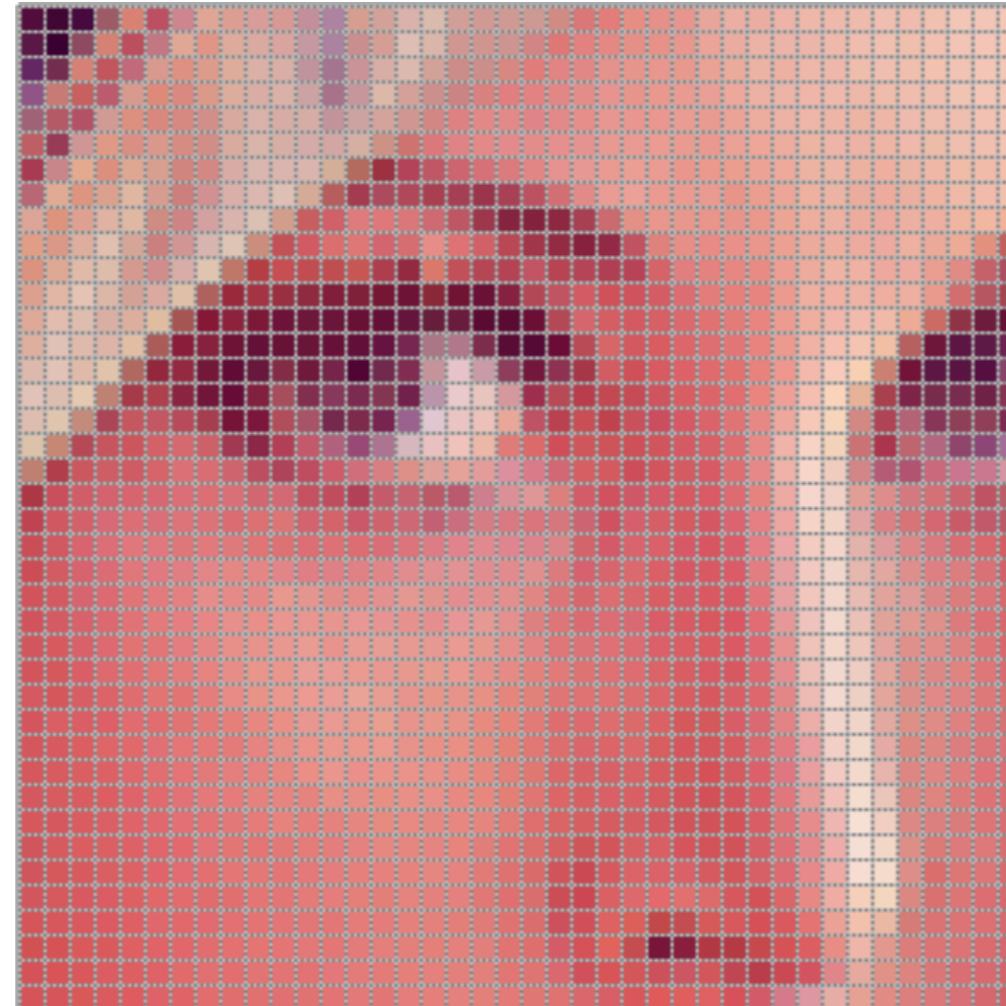
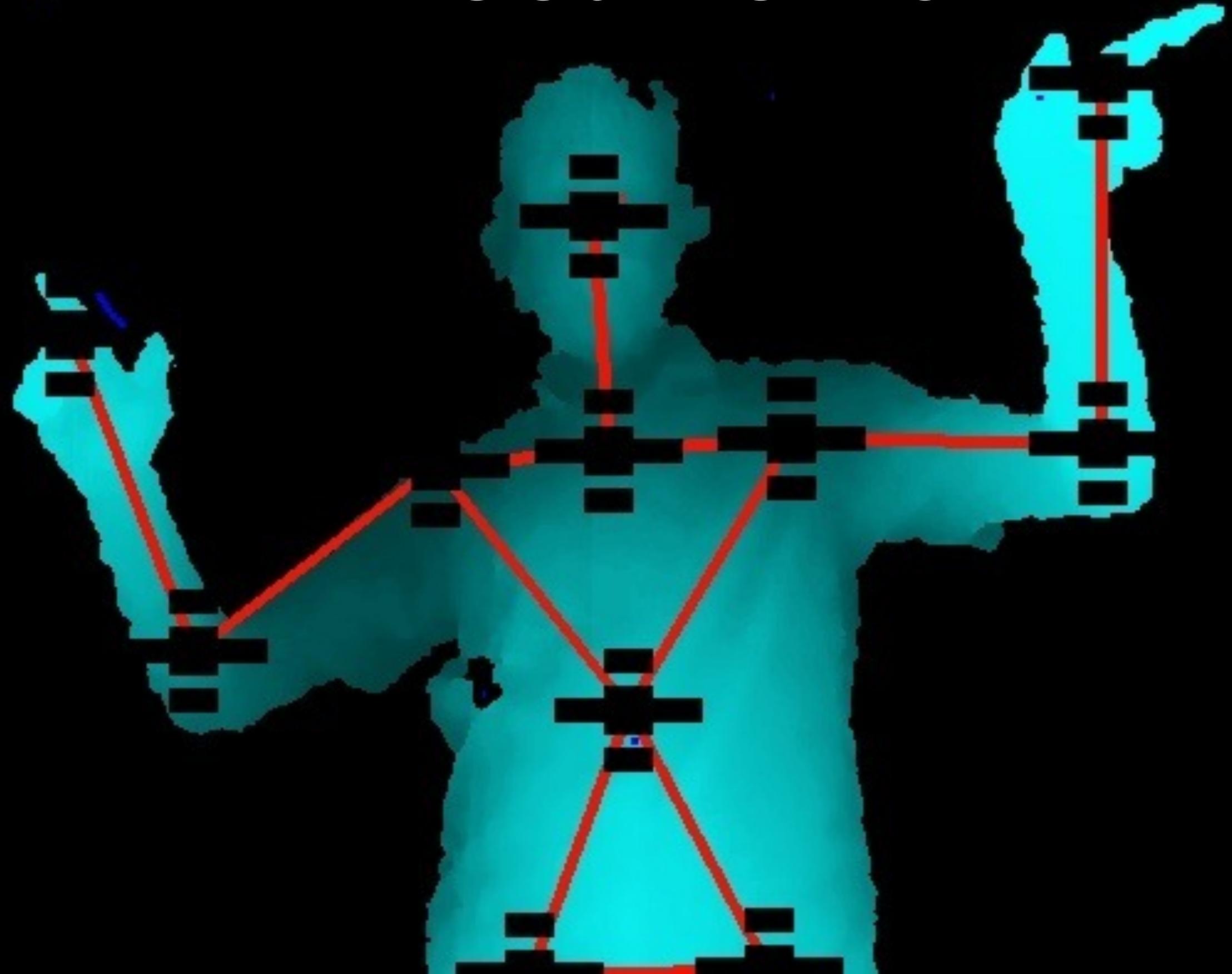


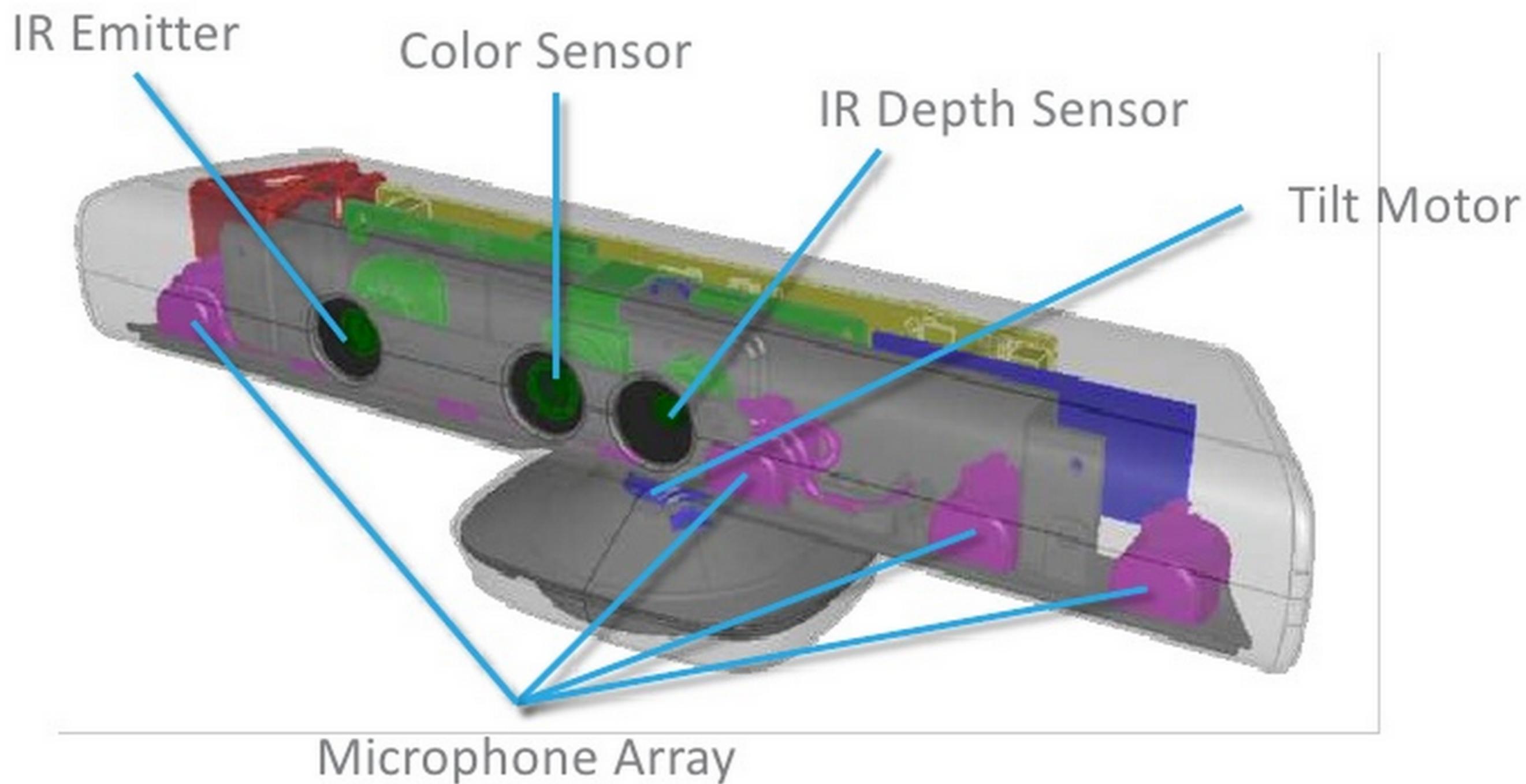
3D Reconstruction with Computer Vision



Meeting 1: Introduction and Image Basics

Kinect Demo







Source: [Curious Inventor](#)



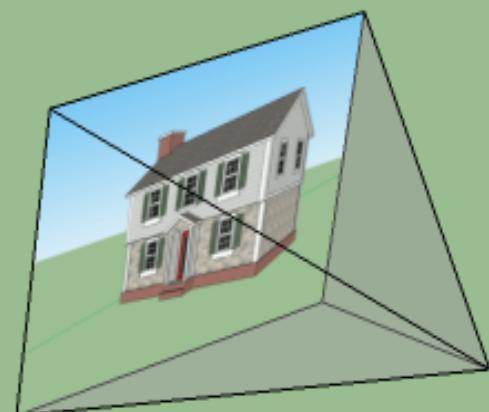
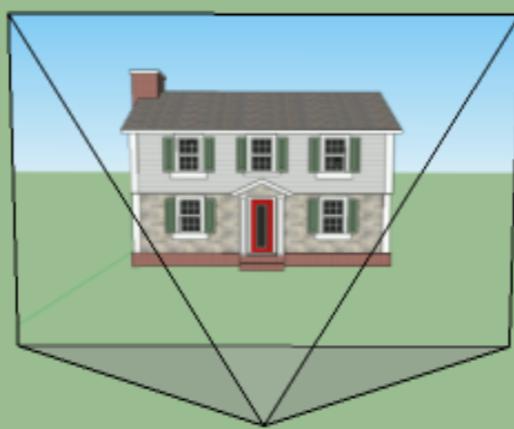
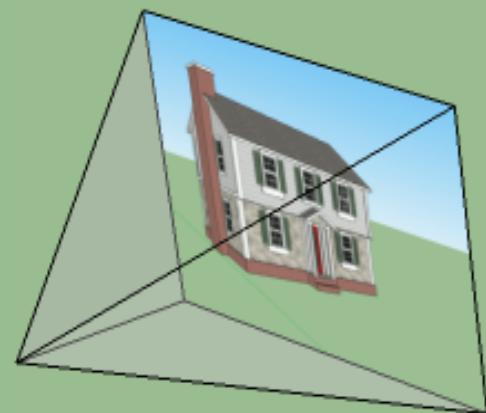
Course info and syllabus!

What you'll learn to do in this course:

- ① Extract 3D info from 2D images
- ② Use scientific libraries effectively
- ③ Code like a pro

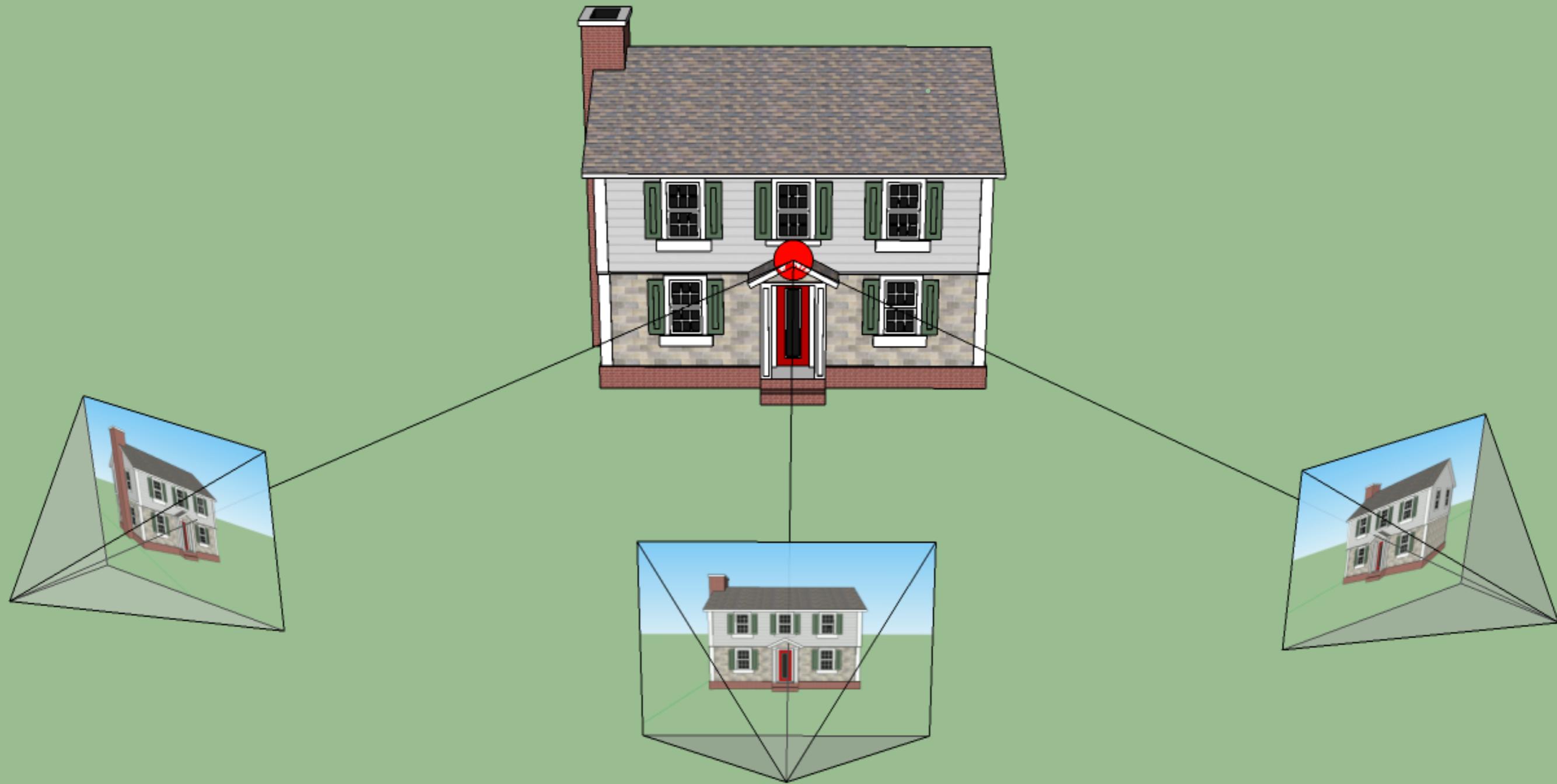
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Extract 3D info from 2D images



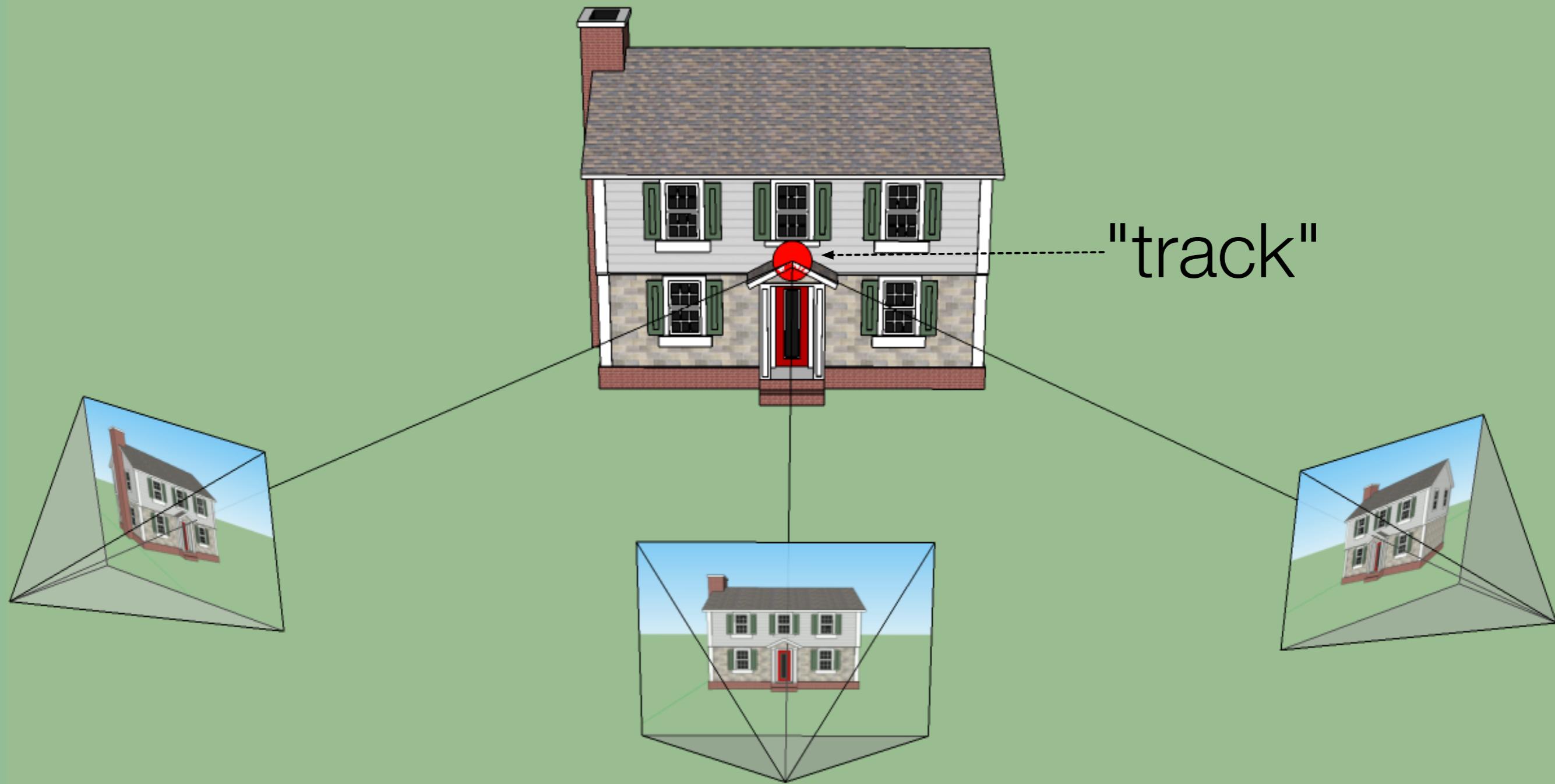
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Extract 3D info from 2D images



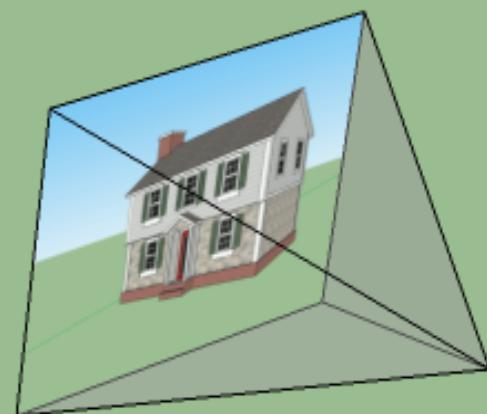
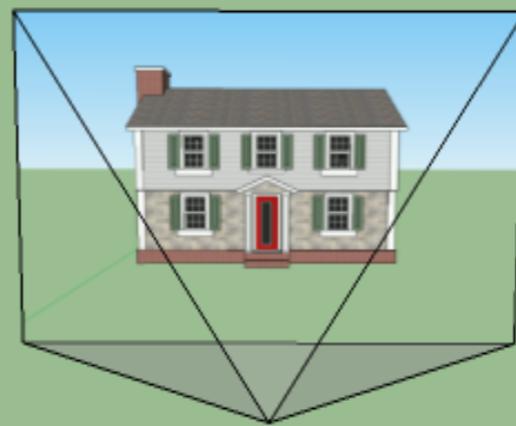
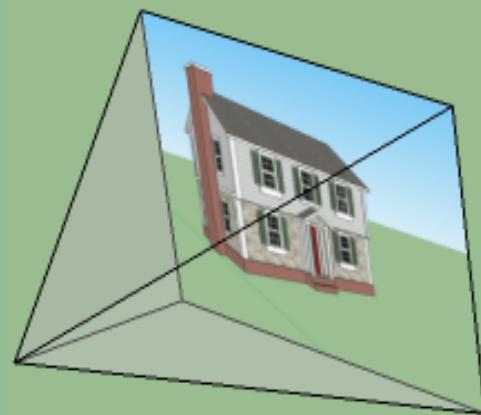
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Extract 3D info from 2D images



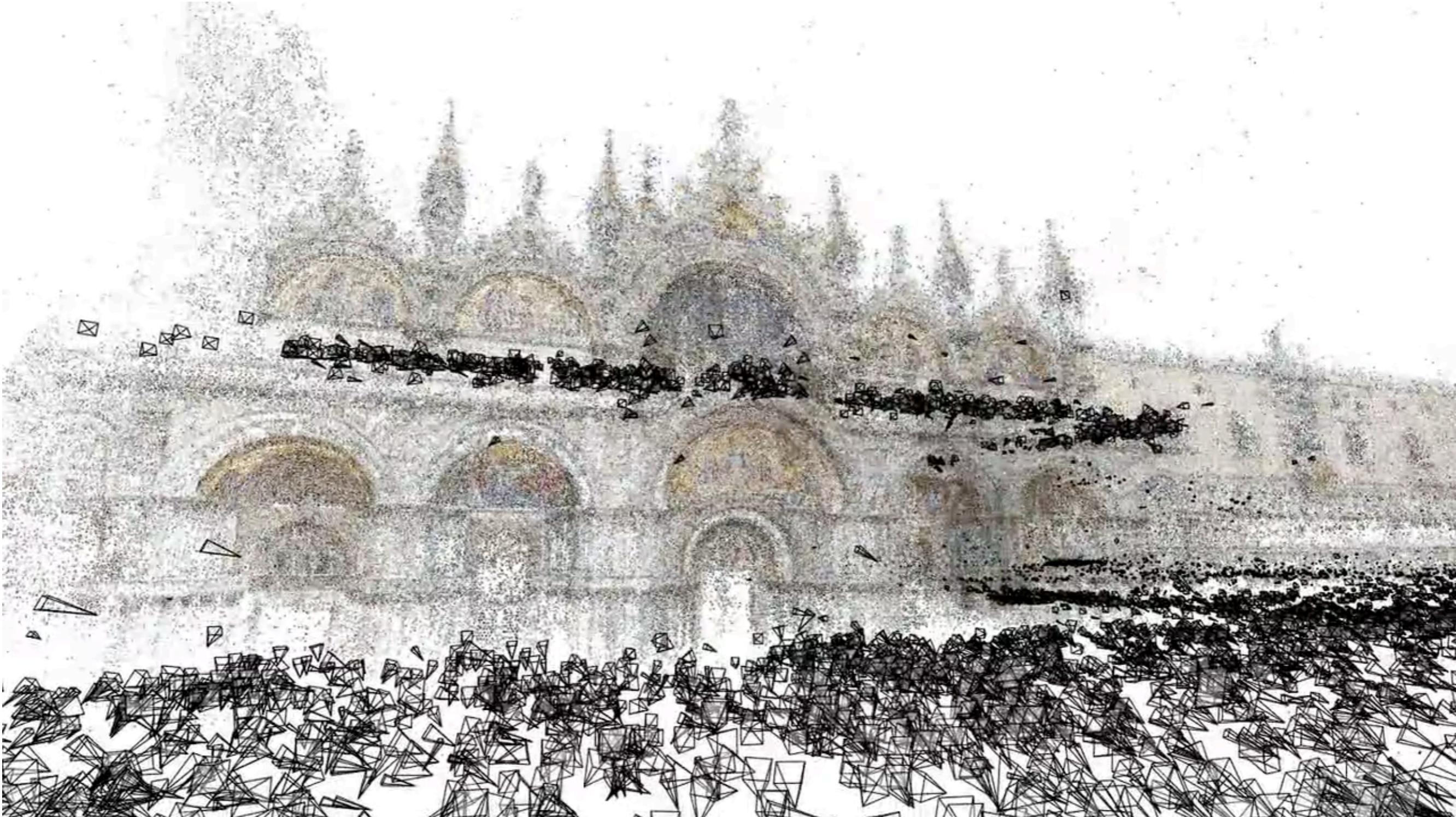
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Extract 3D info from 2D images



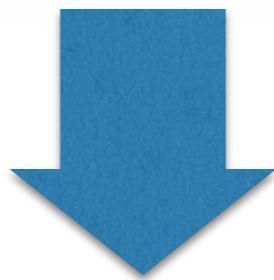
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Extract 3D info from 2D images



Source: [Building Rome in a Day](#)

Project 1: Stitching Panoramas



Source

Project 2: Stereo Vision



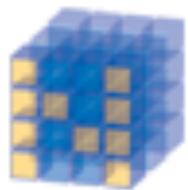
Project 3: Real-time 3D tracking



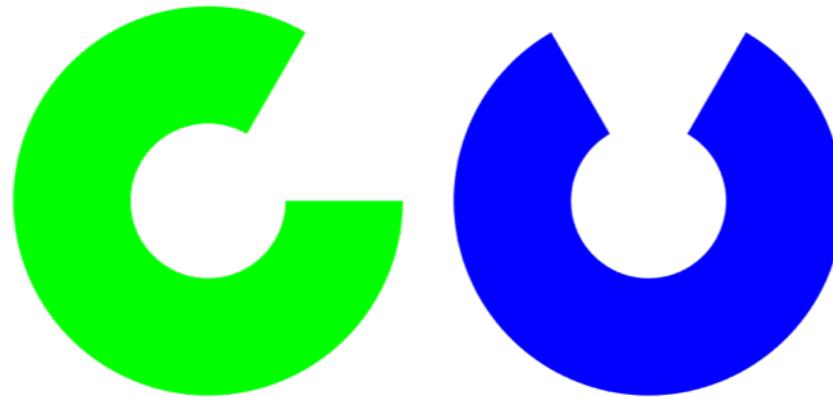
Project 4: You decide!



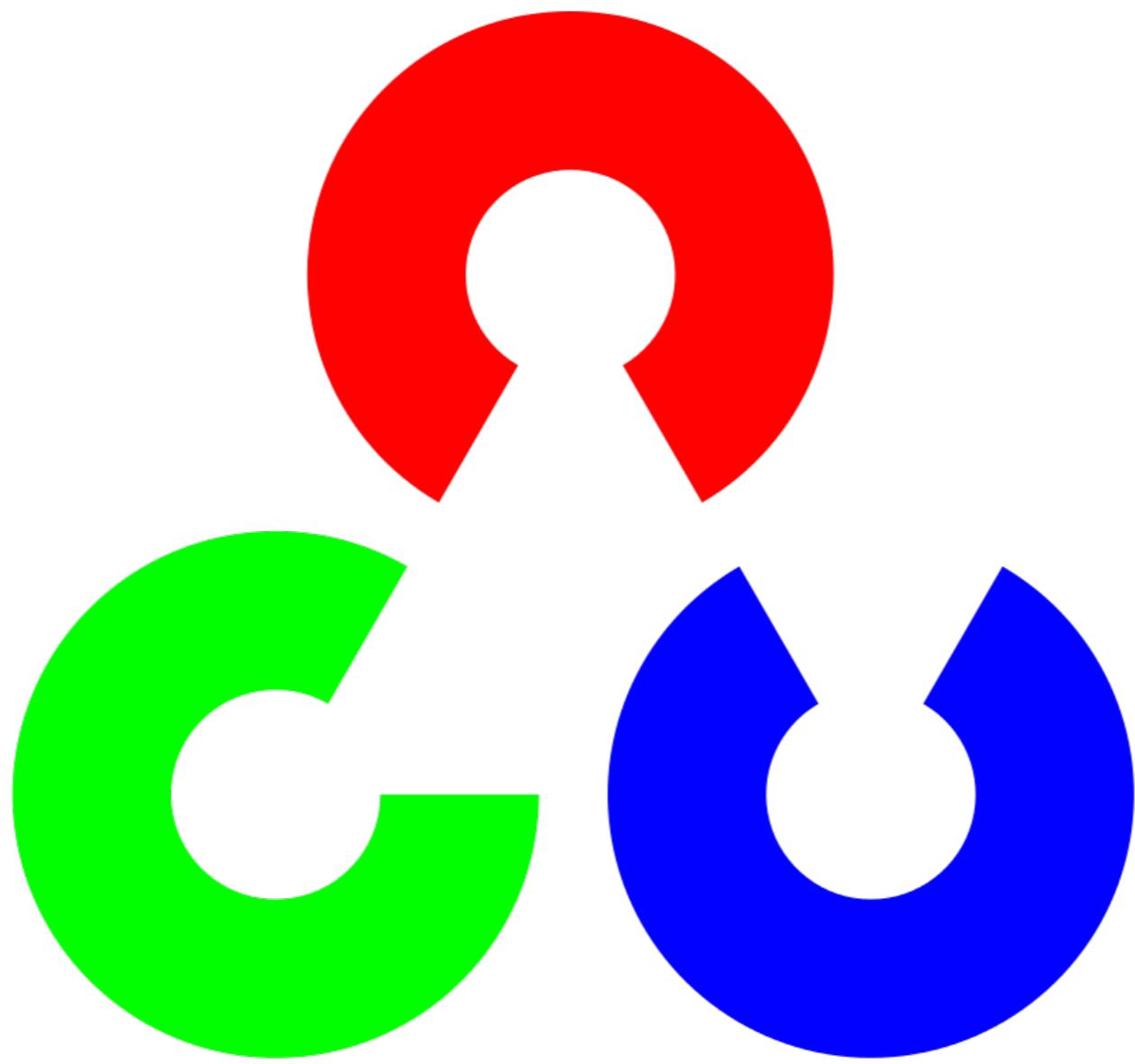
2 Use scientific libraries effectively



NumPy



OpenCV



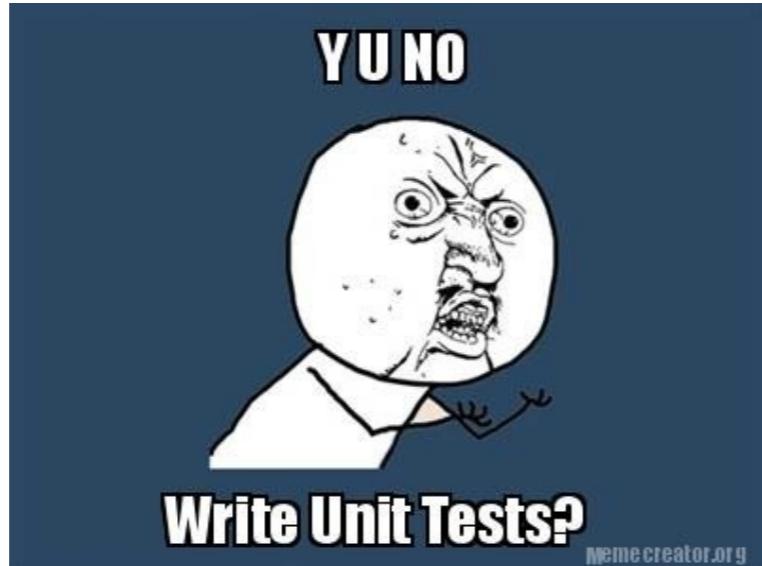
OpenCV

Demo!

3

Code like a pro

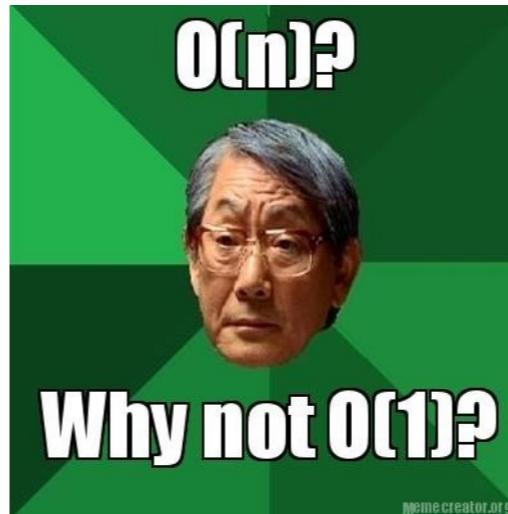
Version control



Code review



Testing



Consistent style

GitHub Setup

