

**For ICP papers:****Visual explanation of ICP:**

<https://www.youtube.com/watch?v=4uWSo8v3iQA>

**In depth mathematical explanation series:**

Part 1: <https://youtu.be/dhzLQfDBx2Q?si=exipXjvpf77-H3fk>

Part 2: <https://www.youtube.com/watch?v=ktRqKxddjJk>

Part 3: [https://youtu.be/CJE59i8oxIE?si=N\\_UAeZkhUe6PRCOS](https://youtu.be/CJE59i8oxIE?si=N_UAeZkhUe6PRCOS)

**For photometric stereo:****First principles of computer vision playlist:**

<https://www.youtube.com/watch?v=BEGMPLcnM2Q&list=PL2zRqk16wsdpyQNz6WF1GQtDICpzzQ925>

(note, all concepts are explained here, reflectance, radiance, irradiance etc... Choose which ones you'd like to watch. You can also just jump into the photometric stereo videos halfway through the playlist (but you'll have to learn the concepts anyway for the theory)).

**For slam+loop closure:****Small visual example, not math heavy:**

<https://www.youtube.com/watch?v=savZtgPyyJQ>

**For feature descriptors and extraction:**

[https://www.youtube.com/watch?v=b6uHw7QW\\_n4](https://www.youtube.com/watch?v=b6uHw7QW_n4)

<https://www.youtube.com/watch?v=YMIfnvaPfRU>