Meeting Minutes 26/11/17

Connected to slack!! :D

What we did this week:

Oleh:

* Built 3D Korn project
* Built project 3 (crashed upon opening)
* Tried to connect kinect to PC...will try it again this week
* Helped Doiriel with VTK to run the project

Doirel:

* Built 3D Korn project

Mahlet:

* Bought a new laptop for the cpp project (old laptop too old for this project)
* Looked at registration algorithms for all groups <https://drive.google.com/open?id=196DaWLs_zjsl51yuly6L5ILBidueyaHock1hi8OyuTs>
  + Conclusion: major difference between algorithms
    - 1st used pre-alignment (converged very well)
    - ICP:
      * 3 groups used the minimum distance between groups
      * 3rd group used point to plane algorithm
      * 1st group used ICP and SVD and multiplied two matrices

Brianna:

* Installed all related components and am trying to build 3D korn on my laptop
* Looked at filters and smoothing for all the groups

<https://drive.google.com/open?id=11otyPpxLThg6ALObZNGD4zuQN_2uF3EibLXFL2WyJUA>

* Conclusion:
  + Most groups used pass through and voxel filters but first group used less filters
  + All groups used the same meshing Greedy Triangulation (GT), Grid Projection (GP), Poisson reconstruction
  + Bilateral Filter used by group 4 good idea to filter raw daata
  + Possible alternative filters include ApproximateVoxelGrid, CropBox is a filter that allows the user to filter all the data inside of a given box, MedianFilter