Real-time OS – it calculates data as soon as it gets it. It only has RAM storage and no secondary, so it runs very quickly to calculate the data that it’s receiving.

Time Share OS – everybody gets all the resources for an alloted amount of time from the main super computer.

Distributed OS – Everybody gets a small part of the processing power and ram storage from the main super computer.

**AR vs VR**

Augmented Reality:

* adds and represents a virtual object into reality.
* Can be expensive.
* Require powerful systems to run

Virtual Reality:

* Replaces reality with virtual objects.
* Can simulate things and train people, remove risks.
* Design and represent.
* Cheaper.
* Can create and simulate prototypes.
* Takes adjusting due to things like motion sickness.
* Require powerful systems to run

Machine learning – Update knowledge from info fed into it

Supervised ML - Giving set rules to the machine and make it do something with those rules.

Unsupervised ML – Giving a bunch of data and see what it can do with it.

Reinforcement – Telling it if it’s doing a good job or not and it improves itself based on that.

Good at:

* patterns
* Analysing data
* Predictions
* Prevent fraud by analyzing expressions and gestures
* Chatbot
* Self-driving cars

IoT – Communication between IoT devices and transfering data.

Small devices communicating with each other that takes small information from multiple devices that put it together to form the bigger picture.