IOT simply is an extension to the current Internet which is extended into the physical world, into things. IOT has been a buzz word among the industries and researchers since it was officially published in 2005. [5]

IOT can be fragmented into two sections, B2C- business to consumer IOT and B2B- business to business IOT. B2C is customer IOT, where B2B is commercial IOT. In IOT there are three types of products. Namely- smart, connected, and IOT products. In IOT there is a front end. That is for the users. There is a back end for admin touch points. And in between, we have enabling infrastructure.

**IOT components:**

**People**: People who energies the Internet of Things

**Infrastructure**: It is the backbone of internet.

**Things**: These are sensors, home automation, cameras etc.

**Data**: Other devices receive data after all the data collection.

**Processes**: It bring about the way all these components work together.

It was early 1970s when the idea of IOT was began. At that time scientists saw the potential in the field of inter connected things. They used the phrase “pervasive computing”. It was 1999 when Kevin Ashton who was working with radio frequency identification, those were small chips that someone could place to any item or animals, and could track that item. He realized the potential in using RFID. He then used the phrase “Internet of Things”, it was the concept of a huge structure where things on the internet interconnect over sensors.

**Fog Computing:**

**Bit of history:**

The necessity for extend cloud computing with the help of fog computing appeared around 2012, for coping with increasing number of IOT devices and big data volumes in order to support real-time and low-latency applications. [8]

In 2015, Cisco Systems, [Princeton University](https://en.wikipedia.org/wiki/Princeton_University), [Microsoft](https://en.wikipedia.org/wiki/Microsoft), [Intel](https://en.wikipedia.org/wiki/Intel), [ARM Holdings](https://en.wikipedia.org/wiki/ARM_Holdings) and [Dell](https://en.wikipedia.org/wiki/Dell) founded the “[OpenFog Consortium](https://en.wikipedia.org/wiki/OpenFog_Consortium)”, for promoting interests and development in the field of fog computing. [Helder Antunes](https://en.wikipedia.org/wiki/Helder_Antunes), Cisco Sr. Managing-Director is the consortium's chairman and from Intel, its Chief IOT Strategist Jeff Fedders is the first president. [9]

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