OSI and TCP Conceptual Model

- The difference between OSI and TCP/IP is that the OSI model has seven layers and the other
- one has four or five.
- Communication Protocols have four important point, which are syntax(how to encode), semantics(what is being communicated), synchronization(Timing) and error recovery methods(how to fix problem).
- The earliest means of communication was by trained carrier pigeons. They carry letters from one place to another. The disadvantage of homing pigeons is that they can only go in one direction, so people need to prepare many homing pigeons.
- Transmission medium and a communications protocol were deafferented by hydraulic semaphore. It works so that both sides have the same information, and the transmission of information is based on the light of a flashlight. Using light to tell each other how high they want the water level to fall to get information.
- Protocols are strick"： It means that the order of grammar and the order in which words are placed can have different effects on the computer.
- 1858 The first transatlantic cable was laid. But the message need to take 16 hours to arrived. the 7 layer from the open systems interconnection: Physical, Data link, Network, Transport, Session, Presentation and Application. Each of these have different rule to help transferring messages
- Physical: Use cables of different materials
- Data link layer: Transfer data to another network device
- Network： Establish a platform for data exchange. People transfer data through software, and software makes sure that the data from the computer gets to the other side through those layers.
- Compared to OSI, TCP/IP model has 4-5 layer variants Addressing has three important thing that needs, which are physical hardware, networks and applications.