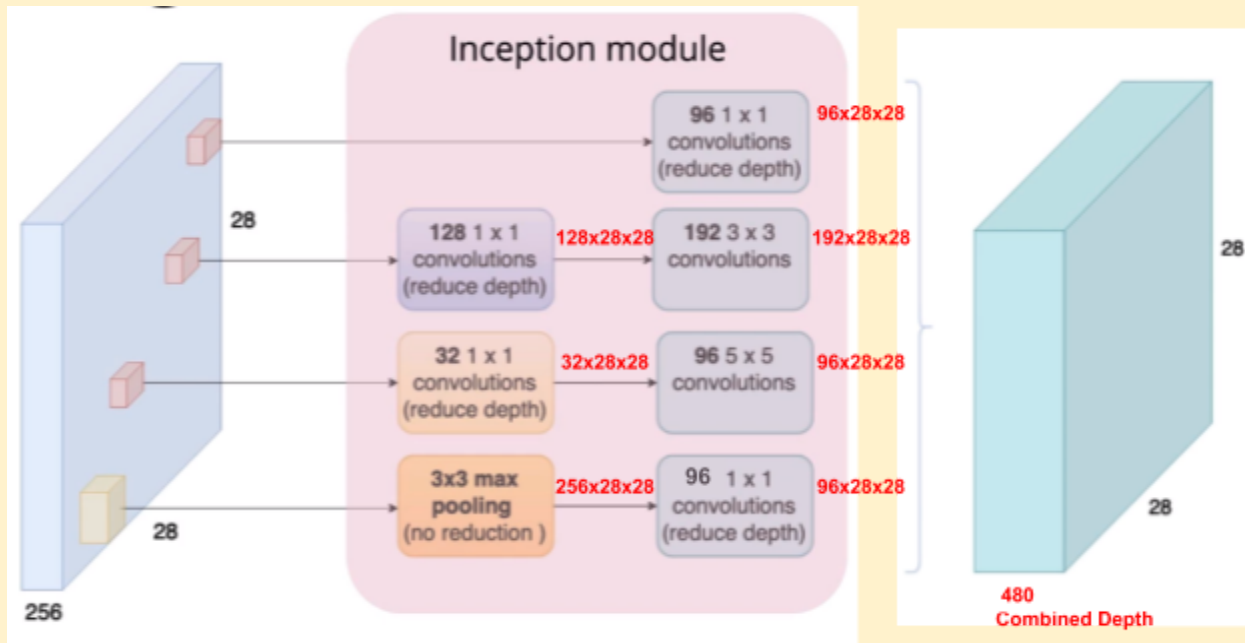


The Inception Module

What is the Inception Module?

1. GoogLeNet is also called Inception net. It is made up of multiple modular operation-blocks known as inception modules.
2. Let us break down a single inception module



3. Here, we can see the sequence of operations performed in this inception module.
4. There are a few operations that are a blueprint of inception modules
5. Direct 1x1 convolutions
6. 1x1 convolutions followed by 3x3 and 5x5 convolutions
7. 3x3 convolutions followed by 1x1 convolutions
8. Here, The number of filters can change but the same blueprint repeats itself throughout the network.
9. Summing the output of all of these, we get the output volume as shown in the figure.