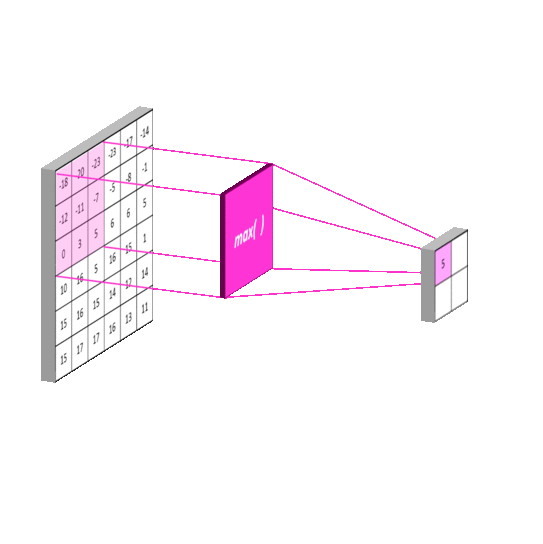
EVA Assignment 1 :

1. **Channels:** It is the region which contains all the features of an image, needs to be extracted by feature extractor.
2. **Kernels :** Kernels are the feature extractor, used to extract features of the given image.
3. **3x3 Kernels : 3x3 Kernel is a feature extractor, used to extract features of given image. This is most commonly used because of its size. It covers all the pixels without much overlapping irrespective of 5x5 and 7x7 kernels. Eg:**



1. we need to perform 3x3 convolutions operations **100 times** to reach close to 1x1 from 199x199 (type each layer output like 199x199 > 197x197...)

eg : 199x199| 3x3| 197x197

197x197|3x3|195x195

195x195|3x3|193x193

193x193|3x3| 191x191

191x191|3x3| 189x189

……

|3x3||3x3| 1x1

1. **Kernel initializer** : Kernel initializer is used to initialize the weights used in convolution. It sets initial random weights of keras layers.

**Eg**: model.add(Dense(64,

kernel\_initializer='random\_uniform',

bias\_initializer='zeros'))