Website : header, footer, side bar, content. Thumbnails, bootraps.

Mask RCNN is a deep neural network aimed to solve instance segmentation problem in machine learning or computer vision. In other words, it can separate different objects in an image or a video. You give it an image, it gives you the object bounding boxes, classes and masks.

two stages （connect backbone）

* First: generates proposals about the regions where there might be an object based on the input image (scaling bottom – up)
* Second, it predicts the class of the object, refines the bounding box and generates a mask in pixel level of the object based on the first stage proposal. (another neural network)

**BackBone**: (FPN(Feature Pyramid network): building high-level semantic feature maps at all scales)

* + It consists of a bottom-up pathway, a top-bottom pathway and lateral connections