**What is SeamCarving?**

It is an image resizing or retargeting technique which usually removes or resizes the part of a picture which contains the least energy.

“Seam-carving is a content-aware image resizing technique where the image is reduced in size by one pixel of height (or width) at a time. A *vertical seam* in an image is a path of pixels connected from the top to the bottom with one pixel in each row; a *horizontal seam* is a path of pixels connected from the left to the right with one pixel in each column’’

**Objective of the project:**

1.The motto of the project is to find a path or shortest path that contains least energy so that we can remove the path in order to resize the picture.

**Steps:**

1.From a given picture and its dimensions we need to find the total energy matrix of each pixel in the picture

2.Finding the cumulative energy matrix.

3.By using topological sort find the path of minimum energies i.e., vertical seams

4.Transposing that energy matrix we can find horizontal matrix..

5.Remove both vertical and horizontal seams

SeamCarver.java

<https://github.com/Manasa81/ADS2_2019501081/blob/master/Project2/Day1/SeamCarver.java>

**Score:**

