

# Foreground Extraction using GrabCut

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In our project, we propose to implement GrabCut algorithm[1]. This is a segmentation algorithm. In this, user selects a rectangle roughly around the required foreground and the algorithm outputs the foreground segmented out very precisely. This works by modelling background and then using it to do a graph cut like segmentation. This algorithm produces visibly better results than many of its competitors like Adobe Photoshop's Magic Wand.

## References

- [1] Rother, Carsten, Vladimir Kolmogorov, and Andrew Blake. "Grabcut: Interactive foreground extraction using iterated graph cuts." *ACM Transactions on Graphics (TOG)* 23.3 (2004): 309-314.