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GrowCut algorithm

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GrowCut is an interactive segmentation [algorithm](#). It uses [Cellular Automaton](#) as an image model. Automata evolution models segmentation process. Each cell of the automata has some label (in case of binary segmentation - 'object', 'background' and 'empty'). During [automata evolution](#) some cells capture their neighbours, replacing their labels.

In GrowCut, a user vaguely draws some strokes inside the object of interest with an object brush, and outside the object with a background brush. In simple cases only a few strokes suffice for [segmentation](#).

References [\[edit\]](#)

- V. Vezhnevets, V. Konouchine (2005). "[Grow-Cut](#)" - [Interactive Multi-Label N-D Image Segmentation](#)"  (PDF). *Proc. Graphicon*. pp. 150–156.

External links [\[edit\]](#)

- <http://www.growcut.com>  - a Photoshop plugin, which implements GrowCut algorithm



GrowCut demo



Categories: [Image segmentation](#)

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