Intelligent Scissors

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## **T093**

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Abstract

Selection tools can be used to select objects in an image to resize/delete/copy/move the objects. There are many types of selection tools such as rectangles or free-form selection tool, sometimes free-form selection tools are called Lasso’s. You can imagine a lasso as a rope surrounding your selection. Unfortunately, selection using ordinary lasso’s can be tedious and boring. In Photoshop, there is a more advanced version of ordinary lasso’s called Magnetic Lasso Tool. Magnetic Lasso is a tool that automatically snaps to an Objects’ Boundaries.

The technical term for the Magnetic Lasso Tool is Livewire or Intelligent Scissors. In this project we want to implement a simple magnetic lasso to learn more about image processing, graphs, and greedy algorithms.



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Graph Construction