

# Image Region Segmentation

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Slide 1/5

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# Region Segmentation Introduction

**Goal:** Identify groups of pixels that go together

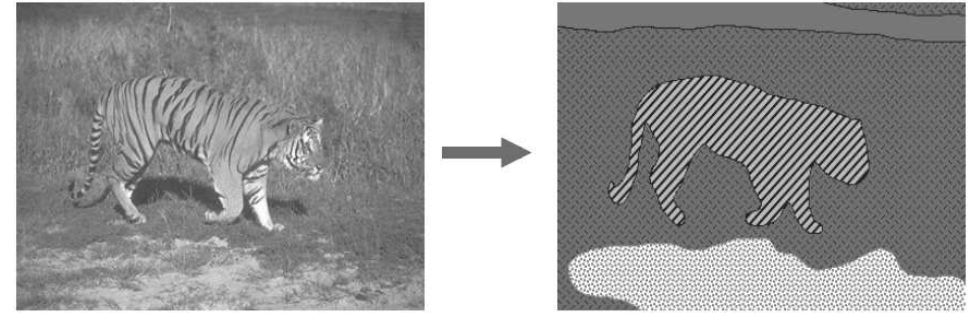


Image credit: Steve Seitz, Kristen Grauman

Slide 2/5

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# Regions Suggest Objects

Separate image into objects:

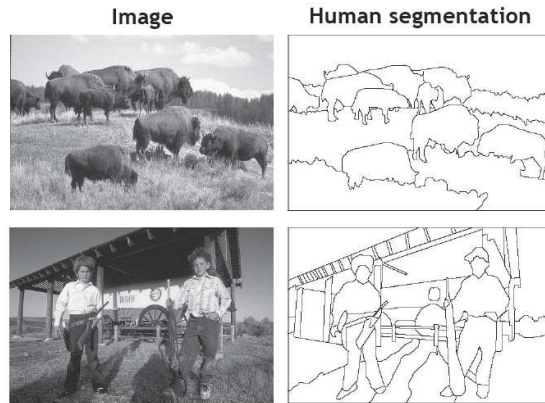


Image credit: Svetlana Lazebnik

Slide 3/5

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# Common Segmentation Approaches

1. **Contrast** - objects have different lightness: thresholding
2. **Change** - objects different from background: background models
3. **Similarity** - objects have consistent colours: colour clustering

Slide 4/5

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# Lecture Overview

1. Segmentation goal - identify important objects
2. Several segmentation approaches