Image Region Segmentation

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Region Segmentation Introduction

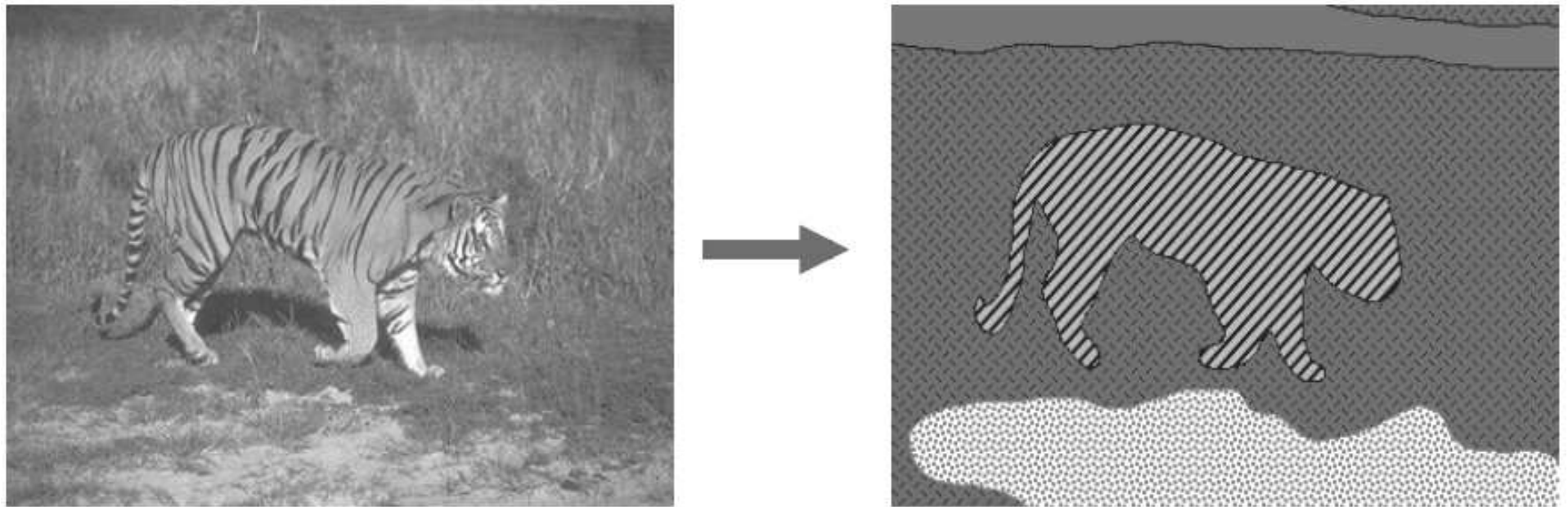**Goal:** Identify groups of pixels that go together

Image credit: Steve Seitz, Kristen Grauman

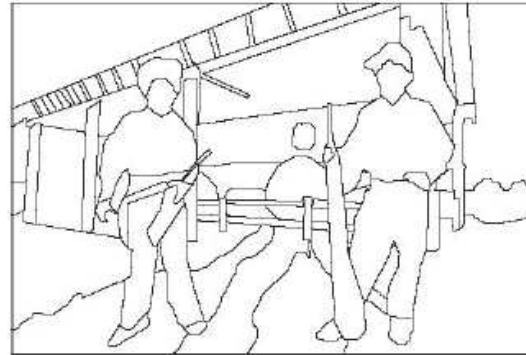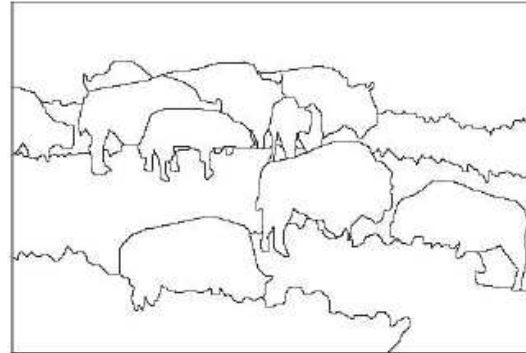# Regions Suggest Objects

Separate image into objects:

Image credit: Svetlana Lazebnik

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 credit: Bob Fisher

Lecture Overview

1. Segmentation goal - identify important objects

2. Several segmentation approaches

Slide credit: Bob Fisher