

# **Lecture 1**

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## Introduction

### What is vision?

Human vision is very fast at classification and recognition. Especially when motion and animals are involved.

Bad at detecting some differences in images, (reflection vs. no-reflection).  
Can fall prey to a myriad of optical illusions.

## Computer Vision

### History

Goal: *bridge the gap between pixels and meaning.*

Computer Vision started as a summer vision project in 1966 at MIT.



## Processing

### Low-level

Extract low-level cues

- Corners

- Edges
- Regions

## **High-level**

Make decisions

- There are 2 cars
- The fairies are fake

**Processing**

Low-level

**Processing**

Low-level

**Processing**

Low-level

**Processing**

Low-level

**Processing**

Low-level