

CS195: Computer Vision

Introduction to Computer Vision

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Road Map

- Brief introduction
- Course logistics
- Topics
 - What is computer vision?
 - What makes vision hard?
 - How does human vision work?

Introduction

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Conclusion: why is computer vision so difficult?

Bad news:

- Computers lack higher-level prior knowledge
- Perception is inherently ambiguous
- We don't know how the human brain works
- Haven't found mathematical models that represent human vision well
- The models we do have require intensive (usually intractable) computation

Good news:

- So much progress is being made! Especially in applications where perfect performance isn't needed.