Settlers of Catan Board Recognition

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Outline

• What is Settlers of Catan?
• Project Goals
• Progress
• Issues
• Future Work
Settlers of Catan
Project Goals

- Identify the Resource Tiles
  - Location
  - Resource Type
Progress – Tile Location – Initial Attempts

- Cross correlate images of the whole tile
  - Tiles are all different, also have different orientations

- Look at the gradient image and find the tile edges
  - Provides a consistent images we’re looking at
  - Tile orientation still a challenge

- Look at the gradient image, find the numbered circles
Progress – Tile Location
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Issues – Board Style
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Number Templates

Artificial Circle
Issues – Tile Size
Future Work

- This semester
  - Refine the tile location process
    - Or define harder limits on the image
  - Automatically determine the circle size
  - Determine the identity of the tile

- Beyond this class
  - Determine the number on the tile
  - Find ideal placement(s)
    - Detect existing placements as a part of this
Questions?