Week 6 Assessment:
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Two main areas of interest:

- continuing coming up with ideas for
  applications for the device

- giving the device a frame of reference

Frame of reference:

- plan to solve the problem using vanishing
  points:
    - find the vertical vanishing points in an
      image using vertical parallel lines
    - once the vertical vanishing points are
      found, determine their rotation from
      'true vertical'
    - repeat on an orthogonal camera to the
      first and we can estimate the
      device's starting rotation

Application for the device:

 - want to consider a 'social' application to the
   device

 - the device is very practical for creating a
   'hybrid reality' or 'hybrid spaces'

Physical reality   Virtual reality

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Hybrid reality

Application for the device:

The idea: City Painting

The users would use the device coupled with their cell phones to create a virtual world painting on a static object in the physical world (hybrid reality).

The painting can then be viewed by other users through the phone's camera linked to the server that would superimpose the virtual image onto the physical image (augmented reality).

The users can use the grafitti either to leave messages or to show off their artwork and can choose the level of privacy (ie personal, friends only, world)

Uses of the device:

- the device would be used as a pointer:
  The user would use the device like a spray
  can to direct the 'spray' of paint

- the device would moniter translation and
  rotation to determine the spray of paint

- the user can use the phone camera to
  determine where to paint and also to change
  color, spray strength, spray spread...