









- Or through the methods (see Assignment 6)
- self. _fahrenheit=9*value/6.0+32
- **Interface vs. Implementation** Interface Implementation Unhidden methods/properties · Hidden fields and methods Specifications of the above · Bodies of methods/properties @property @property def centigrade(self): def centigrade(self): "Temp value in centigrade""" return 5*(self._fahrenheit-32)/9.0 return 5*(self._fahrenheit-32)/9.0 Difficult to change! Easy to change

The Challenge of Making Software

def vignette(self): """Simulate antique lenses

Antique lenses had vignetting or corner darkening. This method darkens each pixel in the image by the factor $(d \ / hD) \ ^2$ where d is the distance from the pixel to the center of the image and hD (for half diagonal) is the distance from the center of the image to the corners.⁴⁰⁰ rows = self current.rows

- cols = self.current.cols
- # FINISH ME

• We do a lot for you

- Classes made ahead of time
- Detailed specificationsYou just "fill in blanks"
- The "Real World"
 - Vague specifications
 - Unknown # of classes
 - Everything from scratch
- Where do you start?









