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Part II

5. My first example came from the Wikipedia image of Noam Chomsky.



d. input dimensions 2288x1712, output dimensions 1988x1712

e. reduceHeight with numPixels=300

f. We're seeing two different shorted versions of Chomsky's portrait. The content aware version preserves features like the eyes and mouth, but loses the overall shape of the face.

My second example comes from a personal photo, where I am way off to the side. I reduced the width in an attempt to bring the people in the picture closer.

a. original image



b. content aware resize



c. imresize output



d. original dimensions 480x720, new dimensions 480x520

e. `reduceWidth` with `numPixels = 200`

f. Attempting to move the people together failed. The energy function favored the path between individuals and instead removed seams from their pants.

The third example comes from a photo from [uncyclopedia.org](http://uncyclopedia.org). It consists of a bunch of individuals painted silver. I thought this one might go awry because everyone in it is the same color.

a. original image



b. content aware resize



c. imresize output



d. original dimensions 487x650, new dimensions 487x500

e. `reduceWidth` with `numPixels=150`

f. In the content aware version, the energy function captured that the people were most relevant, likely due to the change in gradient due to reflections. However, the seams that were removed left a warp in the brick wall.