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# Handout on code structure and presentation
# Created by Kathi Fisler (Brown University)
# the original version

include image
base = circle(50, "solid", "yellow")
eye = circle(9, "solid", "blue")
# create pair of eyes, using another square as a spacer
eye-spacer = square(12, "solid", "yellow")
eye-bar = beside(eye, beside(eye-spacer, eye))
mouth = ellipse(30, 15, "solid", "red")
# create a 3-pixel border for the base
border = circle(53, "solid", "black")
eye-face-spacer = rectangle(30, 15, "solid", "yellow")
eyes-and-mouth = above(eye-bar, above(eye-face-spacer, mouth))
the-face = overlay(eyes-and-mouth, base)
add-border = overlay(the-face, border)
emoji = scale(0.2, add-border)
emoji


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# the same code, but cleaned up
# Kathi Fisler
# I wrote this solution on my own

include image
base = circle(50, "solid", "yellow")
eye = circle(9, "solid", "blue")

# create pair of eyes, using another square as a spacer
eye-bar =
  beside(eye,
    beside(square(12, "solid", "yellow"),
      eye))
mouth = ellipse(30, 15, "solid", "red")

# create a 3-pixel border for the base
# use the image-width to compute the border size
border = circle((image-width(base) / 2) + 3, "solid", "black")

# keep the large image so we can look at it if needed
emoji-large =
    overlay(
      overlay(
        above(eye-bar,
          above(rectangle(30, 15, "solid", "yellow"),
            mouth)),
        base),
      border)

# scale the large image down to the size we want
emoji = scale(0.2, emoji-large)

# automatically show the image when we run the file
emoji
```