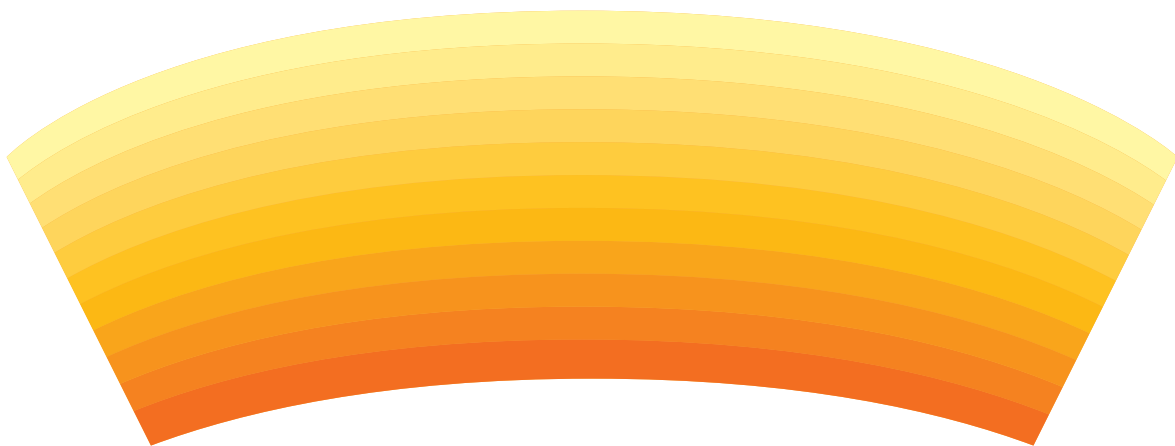
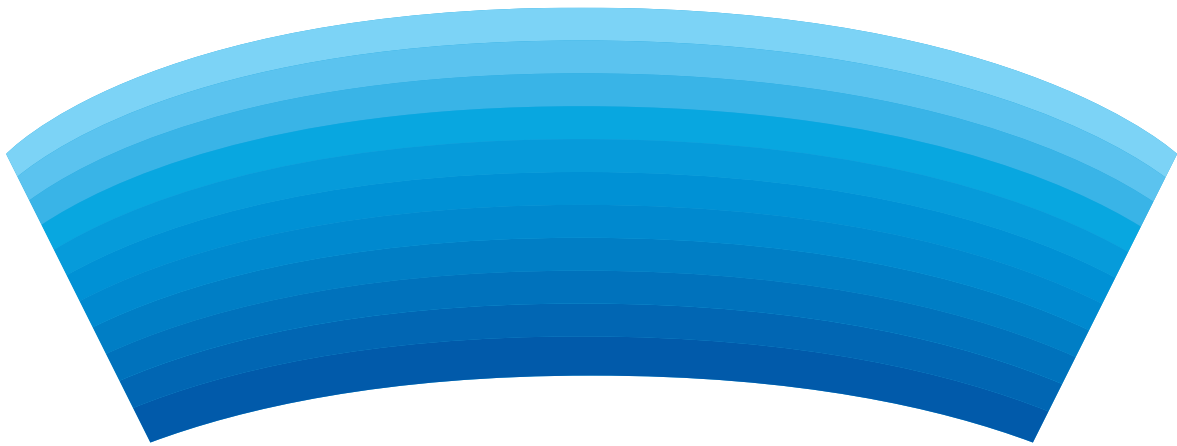


# Crazy Curves

## Get Ready

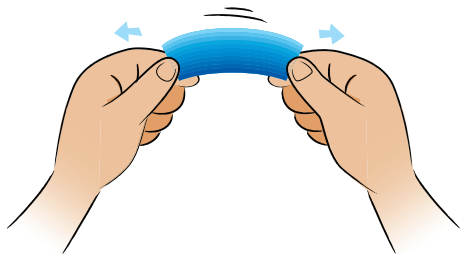
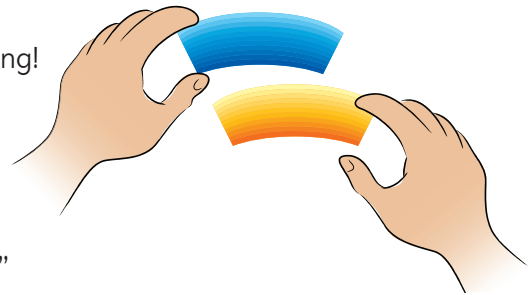
Print out this page and carefully cut out the two curves. Then read the instructions on the next page to see how you can make them seem to grow and shrink!



## Make Magic!

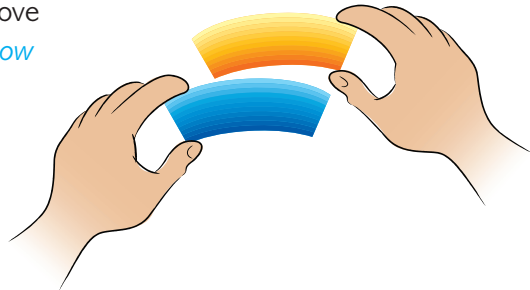
Here's how to make the two curves look like they're magically growing and shrinking!

1. Hold one curve in each hand with the blue curve on top. Be sure to line up the edges, as shown in the picture. Say: "*Here are two crazy curves. The yellow one is a little longer.*"



2. Put the yellow curve down and pretend to stretch the blue one.
3. Pick up the yellow curve and hold it above the blue. Say: "*Now the blue one is longer!*"
4. Put the blue curve down and pretend to stretch the yellow one.

5. Pick up the blue curve and hold it above the yellow one and say, "*Now the yellow is longer again!*"
6. For the big finish, wave both curves in the air and put them on top of each other as you say, "*Now they're both the same size!*"



## How'd it Work?

This is a type of optical illusion, or a trick on the eyes. When you line up the edges of the curves on one side, your brain only pays attention to the other edges. This makes you think that the curve on the bottom is longer. This optical illusion was first discovered by a psychologist named Joseph Jastrow in 1889.