

# Map Coloring



# Map Coloring

## Your Mission

You need to color the entire map of South America. This may seem simple, but there are some restrictions.

- No country may touch another country of the same color.
- You will be charged each time you use a color to fill in a country regardless of its size.
- You must color the map as cheaply as possible.

The cost for each color is shown below.

color	Cost Per Country
Red	\$100
Blue	\$200
Green	\$300
Orange	\$400
Yellow	\$500
Purple	\$600
Brown	\$700
Black	\$800

## Map Coloring

How many colors are required to color a map of the United States so that no two adjacent regions are given the same color?

