

Practice: Exploring Data with a Geographic Map

In this practice, you create geographic maps for the **Mobile Cellular** data.

These are data about mobile cell phone subscriptions per 100 people, from 1990 to 2017. The data set includes information on 217 countries grouped into seven regions and four income groups. It also includes information on the number of fixed telephones per 100 people. Fixed telephones are the focus of this practice.

1. Open the file **Mobile Cellular.jmp** from the course data folder.
2. Create a geographic map for **Fixed Telephones (per 100)**.

Drag **ISO** to the **Map Shape** role, and then drag **Fixed Telephone (per 100)** to the **Color** zone. This is a map of the average fixed telephones (per 100 people), across all 28 years.

3. Interpret this map.

The countries with the most fixed telephones during this time span, on average, were in North America, Western Europe, Japan, Australia, and New Zealand.

4. Create geographic maps for **Fixed Telephones (per 100)** for the years 1990, 2000, 2010, and 2016.

Using the previous map, add a local data filter for **Year**. Select these years in the local data filter. (Hold the Ctrl key, or the Command key on the Mac) to extend the selection.) Then drag **Year** to the **Wrap** zone. Change the color gradient to a sequential scale.

5. What do you observe?

Of these four years, the countries listed previously had the most fixed telephones per person in 2000.

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