

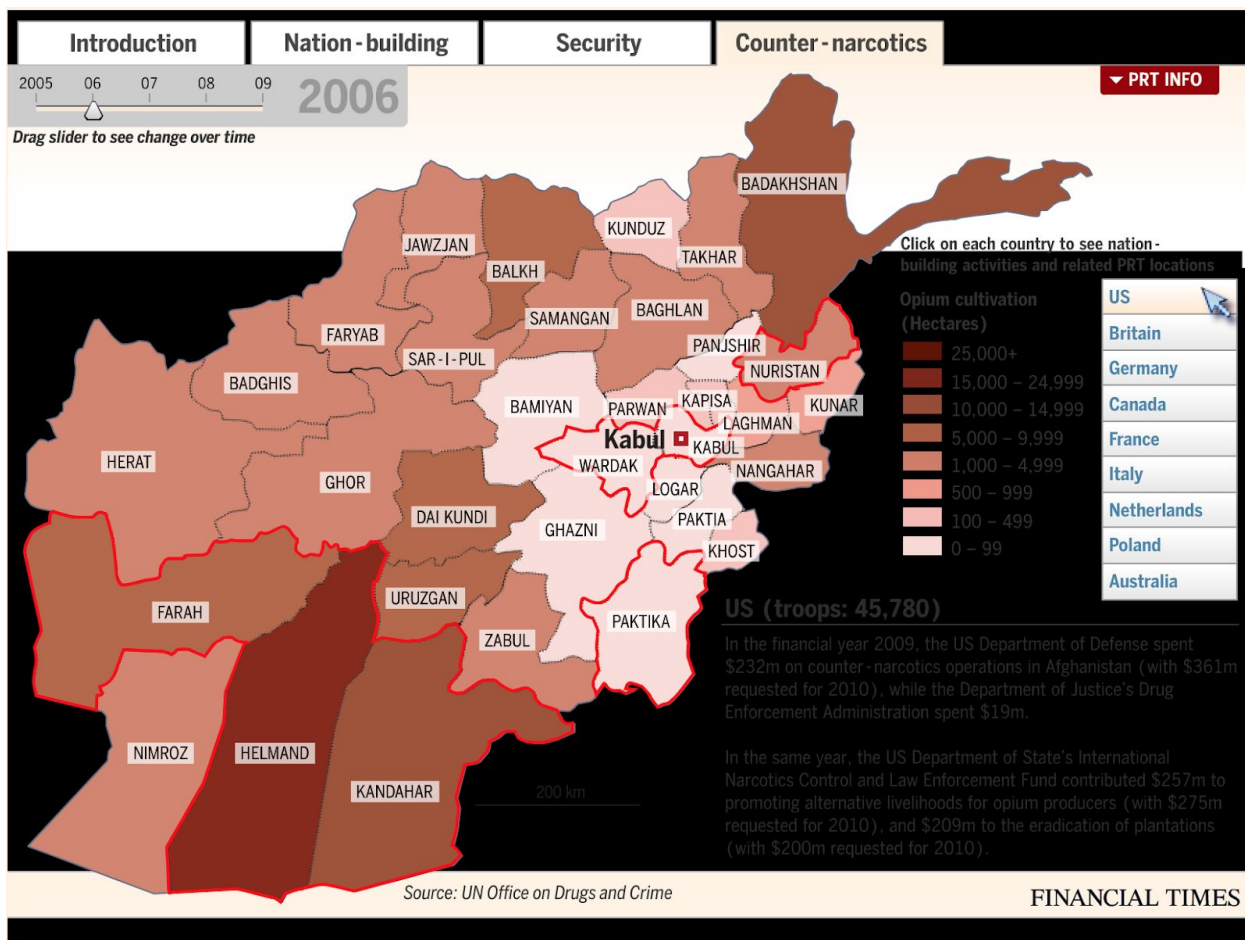
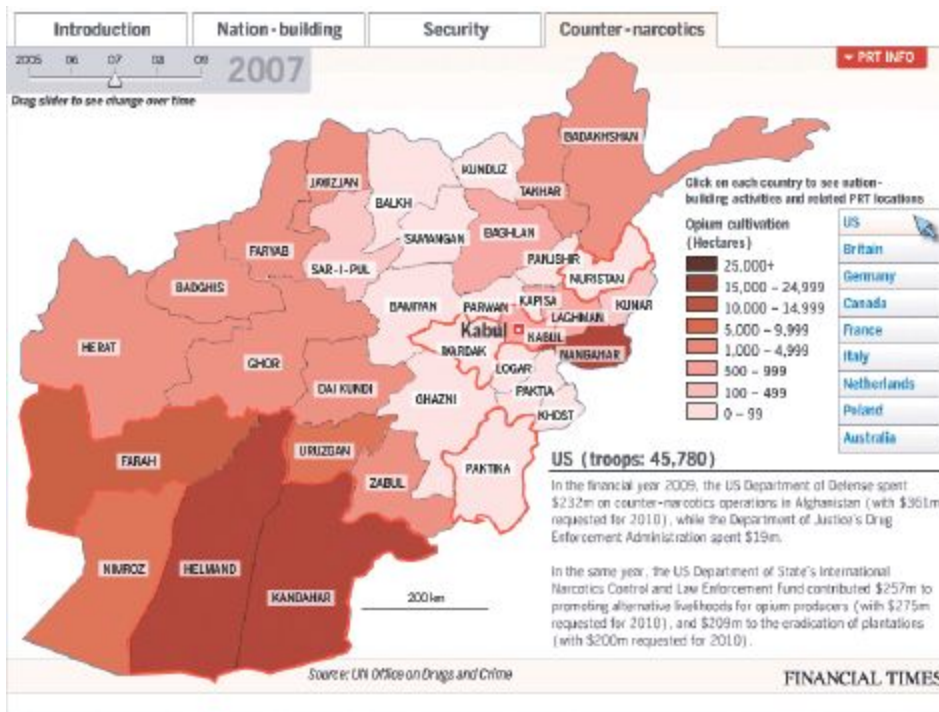
This is a visualization done by the organization, World Mapper, that visualizes wheat production throughout the World. This visualization uses a technique known as cartograms to show which countries have the highest wheat production. Cartograms alter the size of different countries to show different levels of some variable. The data the people referenced in making this cartogram says that China is the highest producer of wheat in the world, followed by India, Russia, USA, and Canada. This visualization is misleading though because it might originally make sense to compare a country's size to its actual size. Since the European nations are so much larger in this map than their actual sizes and Russia actually appears to be smaller than its actual size, one might easily conclude that European nations produce more wheat than Russia. Taking a look at this visualization, Europe immediately jumps out since those countries are so much bigger than what people are used to seeing. The issue with this visualization is that although countries' wheat production is shown by the size of each country. But, people already have an idea of how big each country is, so what really jumps out to people is big changes from a country's actual size. This visualization could also use more effectively. The colors make it difficult to differentiate the United States and Canada. I think the colors are used effectively in Asia and Europe since the map utilizes different tints to show different countries. But, in North America, it is impossible to differentiate the US and Canada. Some sort of legend would be nice too since it is not inherently

clear if different tints are used to simply show different nations, or if there is actual significance there. It is seen that different colors are used for different continents, but the tint does not make any sense. China and Russia are the two highest producers of wheat and Russia has an extremely low value of tint while China has an extremely high value of tint.

If I were to remake this visualization, I would change the size from their original size based off of wheat production, as opposed to simply making their size completely based off of wheat production. So, I would make Russia and China bigger than their actual size since they are the two largest producers of wheat. Then it would be more likely that the viewer would immediately pick out the large size of the countries producing the most wheat. Additionally I would give meaning to the different tints that you see in nations. For example, I would make countries that produce the most wheat in a nation have a lower value tint. Right now this element (tint) has no meaning and can confuse viewers.

<https://ieeexplore.ieee.org/document/4015427?arnumber=4015427&tag=1>

<https://worldmapper.org/maps/wheat-production-2016/>



Afghanistan: Behind the Front Line. Financial Times.

My visualization that I posted has black in the background for some reason, but the actual visualization is just white. I only posted the second one because it appeared to be slightly less blurry.

This interactive data visualization is extremely effective. It is extremely clear in what it is presenting, and provides legends that are easily readable. Immediately when you look at this visualization, it is the color that stands out. The legend right next to the map also stands out and quickly lets the viewer know what the different colors represent. Color is used effectively in showing the various metrics associated with counter-narcotics, security, and nation-building. Color is what the viewer recognizes first and this in fact does appear to be the most important element of the visualization. This visualization lets you choose different categories of data about Afghanistan and then displays that data over the country. Additionally, the visualization adds a detailed summary for each different category to clear up any confusion that the viewer might have for any reason. The visualization is extremely clear with many different elements since you can choose different countries and different categories of data. Color is also used indicate which of the territories in Afghanistan are affected by each other country (US, Great Britain, Germany, etc.). The ability to change years in the top corner is also clearly labeled on the visualization and adds another element. This visualization provides a great amount of information and has every element clearly labeled. An effective summary is given for each different category as well so the viewer can truly take away information from this visualization. Color is the most important aspect of this visualization and is used effectively to both group different territories and to show levels of various metrics.

<https://ieeexplore.ieee.org/document/5613452>

<http://ig-legacy.ft.com/content/663b649e-b7e6-11de-8ca9-00144feab49a>

