

Cultural Change

Culture is always evolving. Moreover, new things are added to material culture every day, and they affect nonmaterial culture as well. Cultures change when something new (say, railroads or smartphones) opens up new ways of living and when new ideas enter a culture (say, as a result of travel or globalization).

Innovation: Discovery and Intervention

Innovation refers to an object or concept's initial appearance in society – it is innovative because it is markedly new. There are two ways to come across an innovative object or idea: discover it or invent it. Discoveries make known previously unknown but existing aspects of reality. In 1610, when Galileo looked through his telescope and discovered Saturn, the planet was already there, but until then, no one had known about it. When Christopher Columbus encountered America, the land was, of course, already well known to its inhabitants. However, Columbus's discovery was new knowledge for Europeans, and it opened the way to changes in European culture, as well as to the cultures of the discovered lands. For example, new foods such as potatoes and tomatoes transformed the European diet, and horses brought from Europe changed hunting practices of Native American tribes of the Great Plains.

Inventions result when something new is formed from existing objects or concepts—when things are put together in an entirely new manner. In the late 1800s and early 1900s, electric appliances were invented at an astonishing pace. Cars, airplanes, vacuum cleaners, lamps, radios, telephones, and televisions were all new inventions. Inventions may shape a culture when people use them in place of older ways of carrying out activities and relating to others, or as a way to carry out new kinds of activities. Their adoption reflects (and may shape) cultural values, and their use may require new norms for new situations.

Consider the introduction of modern communication technology, such as mobile phones and smartphones. As more and more people began carrying these devices, phone conversations no longer were restricted to homes, offices, and phone booths. People on trains, in restaurants, and other public places became annoyed by listening to one-sided conversations. Norms were needed for cell phone use. Some people pushed for the idea that those who are out in the world should pay attention to their companions and surroundings. However, technology-enabled a workaround such as texting, which enables quiet communication and has surpassed phoning as the leading way to meet today's highly valued ability to stay in touch anywhere, everywhere.

When the pace of innovation increases, it can lead to generation gaps. A skeptical older generation sometimes dismisses technological gadgets that catch on quickly with one generation. A culture's objects and ideas can cause not just generational but cultural gaps. Material culture tends to diffuse more quickly than nonmaterial culture; technology can spread through society in a matter of months, but it can take generations for the ideas and beliefs of

society to change. Sociologist William F. Ogburn coined the term **culture lag** to refer to this time that elapses between the introduction of a new item of material culture and its acceptance as part of nonmaterial culture (Ogburn 1957).

Culture lag can also cause tangible problems. The infrastructure of the United States, built a hundred years ago or more, is having trouble supporting today's more densely populated and fast-paced life. There is a lag in conceptualizing solutions to infrastructure problems. Rising fuel prices, increased air pollution, and traffic jams are all symptoms of culture lag. Although people are becoming aware of the consequences of overusing resources, the means to support changes take time to achieve.

Diffusion and Globalization

The integration of world markets and technological advances of the last decades have allowed for greater exchange between cultures through the processes of globalization and diffusion. Beginning in the 1980s, Western governments began to deregulate social services while granting greater liberties to private businesses. As a result, world markets became dominated by multinational companies in the 1980s, a new state of affairs at that time. We have since come to refer to this integration of international trade and finance markets as globalization. Increased communications and air travel have further opened doors for international business relations, facilitating the flow not only of goods but also of information and people as well (Scheuerman 2014 (revised)). Today, many U.S. companies set up offices in other nations where the costs of resources and labor are cheaper. When a person in the United States calls to get information about banking, insurance, or computer services, the person taking that call may be working in another country.

Alongside the process of globalization is diffusion, or the spread of material and nonmaterial culture. While globalization refers to the integration of markets, diffusion relates to a similar process in the integration of international cultures. Middle-class Americans can fly overseas and return with a new appreciation of Thai noodles or Italian gelato. Access to television and the Internet has brought the lifestyles and values portrayed in U.S. sitcoms into homes around the globe. Twitter feeds from public demonstrations in one nation have encouraged political protesters in other countries. When this kind of diffusion occurs, material objects and ideas from one culture are introduced into another.