

Chapter 124

Determine Democracy in Web Design

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ABSTRACT

This chapter serves as an introduction to apply seven indicators in examining democracy on web interface design. It introduces a new measuring instrument to assist in determining a nation's democracy level so that democracy can be measured not only by traditional methods (surveys, case studies, questionnaires, interviews, and observations) but also through the study of web interface design. As a result, it extends cultural and political studies into the fields of human-computer interaction and user interface design.

INTRODUCTION

Surveys are the traditional and most widely used research instrument for measuring democracy. It is often used to measure the progress and decline of freedom and democracy in political rights and civil liberties experienced by individuals. As the Internet has become one of the most important vehicles of communication, and websites one of the most popular channels for information dissemination, a question has often been asked: in what way, if any, does a website, especially its homepage, carry its country's cultural traits and represent its nation's democracy level?

Evidently, web interface design reflects not only the linguistic aspects of a nation, but also its cultural characteristics, such as values, norms, and ethics. When we examine a country's cultural and social attributes represented on the web, one of the most important areas to consider is a country's democracy level, since power and authority create a special social structure for a society's culture.

Hofstede (1980) defined five primary cultural dimensions for measuring cultural differences. Power distance became the first dimension. Subsequently, Marcus (2005) and Marcus and Gould (2000) extended Hofstede's cultural theory to web interface design by identifying online indicators for the five cultural dimensions. Power distance received seven cultural indicators. These seven indicators, as well as three others (Gould, Zakaria, & Yusof, 2000; Singh, Zhao, & Hu, 2003, 2005), were statistically analyzed and validated in Li's (2009) study. Li concluded that special title, monumental building, authority figure, symbol of nationalism or religion, link to information about the leaders of the organization, information

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arranged according to management hierarchy, and symmetric layout are valid indicators for measuring democracy on web interface design.

However, how exactly can web interface design be measured to detect a nation's democracy level with these seven indicators?

This article serves as an introduction to apply these seven indicators in examining democracy on web interface design. It introduces a new measuring instrument to assist in determining a nation's democracy level, so that democracy can be measured not only by traditional methods (surveys, case studies, questionnaires, interviews, and observations), but also through the study of web interface design. As a result, it extends cultural and political studies into the fields of human-computer interaction and user interface design.

BACKGROUND

Democracy and Its Measures

Over the years, the concept of democracy has been defined and redefined many times. For a long period of time, democracy has been associated with the demand of political and social equality (Laski, 1931). Some definitions for democracy place more emphasis on elections, examining voter participations and equal voting rights (Dahl, 1956; Lipset, 1963); others on the existence of political liberties (Lanski, 1966). Bollen (1980) defines democracy as "the extent to which the political power of the elite is minimized and that of the nonelite is maximized" (p.372). He argues that democracy should not be measured by voter participation, political stability, or multiparty political system, but by political rights and political liberties.

A growing number of studies concentrated on democracy measures and indices have been proposed and evaluated. First of all, whether democracy should be measured on a dichotomy approach (Lipset, 1959; Przeworski et al., 2000) or on a continuous scale (Bollen, 2009; Cutright, 1963) has been a major debate. Bollen (1990) believes democracy is continuous and should be evaluated in degrees. Although Bollen provided democracy indices for more than 100 countries, his studies only cover the years of 1960, 1965, and 1980 (Bollen, 1980, 1993). The Polity IV Democracy Scale, however, covers the years from 1800 to 2010 and "examines concomitant qualities of democratic and autocratic authority in governing institutions" (Marshall & Jaggers, 2012). It places a country's democratic values on a 21-point scale. Freedom House Index of Political Freedom also places a country's democracy on an ordinal scale. Freedom is measured by the progress and decline of freedom and democracy in political rights and civil liberties experienced by individuals. Each country is classified by the status of Free (Level 1.0 to 2.5), Partly Free (Level 3.0 to 5.0), or Not Free (Level 5.5 to 7.0) (Freedom House, 2015). Since its publication in 1972, this freedom rating remains as the standard in trans-national democracy evaluations (McClintock & Lebovic, 2006). Together with Polity scheme, it has become one of the two most widely used measures for democracy across countries (Foweraker & Krznaric, 2002).

Cultural Dimensions

In recent years, an increasing number of studies have focused on defining cultural dimensions. Hofstede's (2001) five cultural dimensions have become the most quoted in cross-cultural studies and have been applied to a variety of research fields. After conducting two large surveys with 116,000 questionnaires,

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