Chromebook

March 27, 2018

Abstract

A Chromebook is a laptop running the Linux-based Chrome OS as its operating system. The devices are primarily used to perform a variety of tasks using the Google Chrome browser, with most applications and data residing in the cloud rather than on the machine itself.

1 History

The first Chromebooks for sale, by Acer Inc. and Samsung, were announced at the Google I/O conference in May 2011, and began shipping on June 15, 2011. Lenovo, Hewlett Packard and Google itself entered the market in early 2013. In December 2013, Samsung launched a Samsung Chromebook specifically for the Indian market that employed the company's Exynos 5 Dual core processor. In addition to laptop models, a desktop version, called a Chromebox, was introduced in May 2012, and an "all-in-one" device was introduced in January 2014, by LG Electronics. The all-in-one is named the Chromebase.

2 Design

Chromebooks ship with Google Chrome OS, an operating system that uses the Linux kernel and the Google Chrome web-browser with an integrated media-player. Enabling developer mode allows the installation of Linux distributions on Chromebooks. Crouton is a script that allows the installation of Linux distributions from Chrome OS, and running both operating systems simultaneously. Some Chromebooks include SeaBIOS, which can be turned on to install and boot Linux distributions directly. With limited offline capability and a fast boot-time, Chromebooks are primarily designed for use while connected to the Internet and signed in to a Google account. Instead of installing traditional applications such as word processing and instant messaging, users add web apps from the Chrome Web Store. Google claims that a multi-layer security architecture eliminates the need for anti-virus software.

3   Education market

The education market has been the Chromebooks' most notable success, competing on the low cost of the hardware, software and upkeep. The simplicity of the machines, which could be a drawback in other markets, has proven an advantage to school districts by reducing training and maintenance costs.

4   Citations

1. Vaughan-Nichols, Steven (June 18, 2012). "It's 2016, and Chrome OS is ascendant". Computerworld. Retrieved September 7, 2013. 2. 3. Enderle, Rob (May 12, 2011). "Why Google's Chromebooks are born to lose". Digital Trends. Retrieved September 7, 2013. 4. "Offline Apps". Chrome Web Store. Google. 5. Taylor, Harriet (2015-12-09). "Google is crushing Apple, Microsoft in US schools". CNBC. Retrieved 2018-03-12. NABAWESI SANDRA SPECIOUS 11/U/11594/EVE 211015135