

Zz

Zachman Framework: an enterprise architecture framework that provides a formal and highly structured way of viewing and defining an enterprise; a taxonomy for organizing architectural artifacts (Curtis & Lingarchani, 2011)

ZB-GaN and WZ- GaN: two common types of GaN semiconductor- cubic and hexagonal crystal type (Mukherjee, 2012)

Zero-Knowledge Proofs: the probabilistic proofs that demonstrate, up to a desired level of certain, membership in the language without conveying any additional knowledge. In other words, zero-knowledge proofs are used to prove the knowledge of information without revealing anything about it. (Joaquim, 2008)

Zero-Sum Game: a game where, for any outcome, the sum of the payoffs to all players is zero. In a two-player zero-sum game, one player's gain is the other player's loss, so their interests are diametrically opposed. (Ryan & Coffey, 2008)

ZigBee: a low-cost low-power, wireless mesh networking standard based on the IEEE 802.15.4-2003 standard for wireless personal area networks (WPANs). Specification for

wireless personal area networks (WPANs) operating at 868 MHz, 902-928 MHz, and 2.4 GHz. A WPAN is a personal area network (a network for interconnecting an individual's devices) in which the device connections are wireless. Using ZigBee, devices in a WPAN can communicate at speeds of up to 250 Kbps while physically separated by distances of up to 50 meters in typical circumstances and greater distances in an ideal environment. (Vazquez et al., 2010; Eleni & Maglogiannis, 2010)

ZigBee Alliance: a group of companies which maintain and publish the ZigBee standard in order to maintain it (Vazquez et al., 2010)

Zine: a homemade fan fiction magazine, often based exclusively within certain pop culture genres (e.g., science fiction, punk) and traded among enthusiasts (Burke, 2012)

Zing: the team learning system, one of two different software programs which grew out of the Groupiter group decision support system (Fitzgerald & Findlay, 2008)

ZIP Code Tabulation Area (ZCTA): an approximate area representation of a United States Postal Service ZIP Code service area. A ZCTA may not exist for every valid ZIP



Code. In most cases, the excluded ZIP Code identifies a single delivery location for which the Bureau of the Census had insufficient data to establish a distinct ZIP Code area. (Prieger & Lee, 2008)

Zipf Distribution: a distribution in which the frequency of any object is inversely proportional to its frequency rank. It has been observed in text corpora, database contents, and other natural phenomena. (Chau et al., 2009)

Zipf's Law: an experimental law that originally stated that in a corpus of natural language utterances, the frequency of any word is roughly inversely proportional to its rank in the frequency table. The term Zipf's distribution is commonly used to refer to any of a family of related power law probability distributions. These kind of distributions are observed in many kinds of phenomena and are characterized by the fact that for large values of the independent variable the distribution decays polynomially with exponent strictly bigger than one. The frequency of access to Web pages and keyword usage in search engines obey Zipf's law. (Pouzols et al., 2008a)

Zippie: a slang term, also known as Generation Z, similar to Neo-Millennial students. It originally refers to the young people in India with mobile zip drives, and includes young people on the go with computer technologies in general. (Zhang & Bonk, 2010)

Zombie: a compromised machine that floods the victim's machine or network with attack traffic (Kiran Tupakula, 2009)

Zone: a group of devices or ports authorized to communicate with one another (Clark, 2009)

Zone of Proximal Development (ZPD): a term coined by Vygotsky to describe the space between a learner's current skill level and the next skill level which the learner cannot reach without assistance. The ZPD represents what the learner is poised to learn next. (Dennen & Burner, 2009)

Zoom: a user interface operation that defines a new user focus by OR'ing user-selected concepts and AND'ing them with the previous focus. A reduced taxonomy is then computed and shown to the user. (Sacco, 2008a)

Zoom Control: the ability to control the zoom level in a user interface or an image or a document (Capin & Haro, 2008)

Zoom Text: a computer application that magnifies text, adjusts background and font colors, and provides speech for the user (Spiegel, 2009)

Zoomable User Interface (ZUI): a spatial 2.5-D interface in which data objects are organized in space and scale. Users navigate this space by performing zooming (changing the scale) and panning (movement at constant scale) operations. (Büring, 2008)

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