

# The black box theory

[Technology](#), [Innovation](#)



The Black Box Theory This is a black box essay. You know that this essay was submitted, and it scored a full mark in the criteria A and B. The content of the essay is unknown, but however, it is assumed that the content is well written and fulfills all parts of the criterion. As a black box essay, it is written in reference to the black box theory, which implies to an object with unspecified internal workings, leaving the user only aware of the input and a predictable output, gained by experience of the previous tests conducted. [1] This term originated from the world of aviation, where most parts of the aircraft are painted black, in which the pilot is not required to understand how the components work, but just solely the input and output of the controls. With the progressive development of technology and the efforts of redefining the term "mobility", electrical components have become smaller and smaller since. One of the biggest influences all time is the invention of the integrated circuit, usually referred to as IC. It is a microscopic array of electronic circuits embedded into different kinds of platforms regarding its application. [2] Due to its microscopic structure, it is being considered as one of the line-replaceable units (LRU) as malfunctioning causes are so small that it is close to impossible to be identified furthermore being repaired.[3] If not labeled, electricians or physicians can only identify their purpose by testing them, applying the input in following to getting the output. With no confirmed facts, only making assumptions on its internal structure based on the results. ----- Moreover, the interaction between human and technological devices has also increased vigorously. Kids nowadays rely on gadgets such as iPods, computers and smart phones for entertainment. Although they do not understand the concepts of how

they function, but they do know the outcome of a gesture or action they made on the device. Thus, the problem is that with the dealings of technology so common on life, especially in this generation, people usually take it for granted.[4] With utmost concern, will the black box use today death knell to human ingenuity by taking technology for granted and not understanding the components fully? ----- 1. " Thomas A. Bass." Black Box -. N. p., n. d. Web. 12 Mar. 2013. . 2. " Integrated Circuits." Integrated Circuits. N. p., n. d. Web. 12 Mar. 2013. . 3. " Line-replaceable Unit." Wikipedia. Wikimedia Foundation, 31 Dec. 2012. Web. 12 Mar. 2013. . 4. Strauss, Valerie. " Is Technology Sapping Children's Creativity?" Washington Post. The Washington Post, 12 Sept. 2012. Web. 12 Mar. 2013. . In my opinion, I disagree with the following statement. As human ingenuity emphasizes on the ability of humans to initiate changes, generating negative or positive impacts resulting to the reaction of others in all aspects [5], the black box phenomena actually encourages the development of more advanced technology, where scientists can focus on creating new innovations, with no needs to pay attention to the minor details such as the components of the existing technologies. For instance, inventors are allowed to reuse the invented chips to help with his new invention instead of delaying time making a new one, allowing him to focus more on the new important factors of the invention. Not only that, but the black box enables the development of higher level technology as in having completely new theories and concepts by increasing the creativity of the people. [6] This is because the black box encourages one to assume of the content of the black box through creativity and at the same time, logistics. Having most of

the people making their own individual assumptions, backing up their own points while further developing their own ideas, it frees them from the limits of education where they are allowed to think of their own concepts based on their own understandings instead of accepting the knowledge of what education has taught them. It is said that yes, although the black box theory enables and boosts the performance on one's thinking, however, the lacking of proper knowledge on the object prevents one from actually creating it as the requirement of knowledge cannot fulfill or cope with the creativeness, where the black box theory can prevent one from getting the correct information too, limiting human ingenuity. [6] Education nowadays is also getting on hands. From sitr. com, statistics show that 59% of the people globally and 62% in the United States feel that their creativity is being depleted by the current education systems, hence decreasing human ingenuity.[7] The reason behind this is that the current education is spoon-feeding the students while forcing them to memorize the given information. From small, the children's mind will be influenced to the same way of views and perspective as everyone else, eliminating the plausible ideas that one might have thought of. [8] ----- 5. " Middle Years Programme Curriculum Areas of Interaction." Human Ingenuity. N. p., n. d. Web. 12 Mar. 2013. . 6. " How to Boost Your Creativity." About. com Psychology. N. p., n. d. Web. 12 Mar. 2013. . 7. " Technology Is Killing Creativity." SITR SEM News. N. p., n. d. Web. 12 Mar. 2013. . 8. " Our Education System Is Killing Creativity." Business Insider. N. p., n. d. Web. 12 Mar. 2013. . However, the solution is to change the concept of people towards education and education itself. Through the researches and studies

on psychology, a new type of education that uses the black box theory to boost creativity can be created, training children with their critical thinking through the development of their mindset, revealing the actual knowledge to them after asking them to state and back up their own opinions. With the help of psychology studies, it prevents the student's self-esteem from being disrupted while boosting independence, where the students will be able to accentuate on their own points, slowly testing out ideas themselves. This kind of education will stimulate behaviors of the students that benefit the development of technology and also human ingenuity in the future society. More new innovations will be found in the society due to the high level of inspiration in the psychological minds of the people, where evaluations are to be made hence causing technology to develop faster, leading to totally new concepts or even upgrades of the previous theory. Overall, the black box does not death knell to human ingenuity but it enchants it. With the society encouraging the creation of new changes with new business opportunities, awards and prizes, humans will not stop initiating changes more to death knell in human ingenuity.[9] Likewise, the mysteriousness of the black box will generate more motivation by the triggering of curiousness in human behavior. Even if the content of the black box is not to be identified, it will actually further develop human ingenuity where it enables us to create a totally new concept that does not refer to the past creations of mankind. [10] -----

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What Is Motivation?" About. com Psychology. N. p., n. d. Web. 12 Mar. 2013. . 10. " Theories of Motivation." About. com Psychology. N. p., n. d. Web. 12 Mar. 2013. . 11. Bibliography 1. " How to Boost Your Creativity." About. com Psychology. N. p., n. d. Web. 12 Mar. 2013. . 2. " Integrated Circuits." Integrated Circuits. N. p., n. d. Web. 12 Mar. 2013. . 3. " Is Overdependency on Technology Killing Creativity??" Is Overdependency on Technology Killing Creativity?? N. p., n. d. Web. 12 Mar. 2013. . 4. " Middle Years Programme Curriculum Areas of Interaction." Human Ingenuity. N. p., n. d. Web. 12 Mar. 2013. . 5. " Our Education System Is Killing Creativity." Business Insider. N. p., n. d. Web. 12 Mar. 2013. . 6. " Psychology