

Back Of The Envelope Calculation

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Functional testing The advantage of performing an initial sanity test is that of speedily evaluating In software development, functional testing is a form of software testing that verifies whether a system meets its functional requirements. rule-of-thumb or back-of-the-envelope calculation may be checked to perform the test

Boe business law Back-of-the-envelope calculation, a rough estimation Bøe, a Norwegian surname The Face of Boe, a recurring character in the TV series Doctor Boe, BOE or BoE may refer to:

Onions are considered an important ingredient of most Indian cooking, providing the pungent foundation for curries and other dishes. Onion prices have been an important political issue: they were regarded as the decisive factor in the 1998 state elections in Delhi and Rajasthan, and were responsible for bringing down the central government in 1980. India is the second largest onion producer in the world, after China.

Sanity check The advantage of performing an initial sanity test is that of speedily evaluating A sanity check or sanity test is a basic test to quickly evaluate whether a claim or the result of a calculation can possibly be true. The point of a sanity test is to rule out certain classes of obviously false results, not to catch every possible error. A rule-of-thumb or back-of-the-envelope calculation may be checked to perform the test. rule-of-thumb or back-of-the-envelope calculation may be checked to perform the test. The advantage of performing an initial sanity test is that of speedily evaluating basic function. It is a simple check to see if the produced material is rational (that the material's creator was thinking rationally, applying sanity)

== Use in different fields ==

Two envelopes problem It is of special interest in decision theory and for the Bayesian interpretation of probability theory. switch. It is a variant of an older problem known as the necktie paradox. Since the situation is symmetric, it seems obvious that there is no point in switching envelopes. On the other hand, a simple calculation using expected The two envelopes problem, also known as the exchange paradox, is a paradox in probability theory

The problem is typically introduced by formulating a hypothetical challenge like the following example: The mass ratio is a useful quantity for back-of-the-envelope rocketry calculations: it is an easy number to derive from either The word may be used in a pejorative sense if information for a better estimate is available but ignored. In computer science, a sanity test is a very brief run-through of the functionality of a computer program, system, calculation, or other analysis, to assure that part of the system or methodology works roughly as expected. This is often prior to a more exhaustive round of testing. in software engineering, where new development of features and release timelines are based on effort guesstimates of tasks. Blades of Exile, a computer role-playing game Despite similar naming, functional testing is not testing the code of a single function. Bastards of Evil, a comic book supervillain team Lawrence Weinstein and John Adam's 2009 book Guesstimation... == History == in physics, where the use of guesstimation techniques to solve Fermi problems is taught as a useful skill to science students;

Guesstimate A guesstimate may be a first rough approximation pending a more accurate estimate, or it may be an educated guess at something for which no better information will become available. Ansatz Back-of-the-envelope calculation Heuristic Scientific wild-ass guess Look up guesstimate in Wiktionary, the free dictionary. It is defined as an estimate made without using adequate or complete information, or, more strongly, as an estimate arrived at by guesswork or conjecture. Like the words estimate and guess, guesstimate may be used as a verb or a noun (with the same change in pronunciation as estimate). Harper Guesstimate is an informal English portmanteau of guess and estimate, first used by American statisticians in 1934 or 1935. (about 60 tons)

== Background ==

2010 Indian onion crisis price-ramping by traders have also been blamed for the crisis. The crisis was caused by errant rainfall in the onion producing regions which led to a shortage of onion production. The crisis caused political tension in the country and was described as "a grave concern" by then Prime Minister Manmohan Singh. The Times of India, in a back-of-the-envelope calculation alleged that wholesale retailers and speculative The Indian onion crisis of 2010 involved the dramatic rise in the cost of onions across markets in India

As a form of system testing, functional testing tests slices of functionality of the whole system. == Historical background ==

== Types ==

Functional testing includes but is not limited to:

Fermi problem Fermi problems typically involve making justified guesses about quantities and their variance or lower and upper bounds. Fermi problems are usually back-of-the-envelope calculations. A Fermi estimate (or order-of-magnitude estimate, order estimation) is an estimate of an extreme scientific calculation. or approximation of extreme scientific calculations. In some cases, order-of-magnitude estimates can also be derived using dimensional analysis. Fermi problems typically involve making A Fermi problem (or Fermi question, Fermi quiz), also known as an order-of-magnitude problem, is an estimation problem in physics or engineering education, designed to teach dimensional analysis or approximation of extreme scientific calculations. Fermi problems are usually back-of-the-envelope calculations

Fermi was known for getting quick and accurate answers to problems that would stump other people. The most famous instance came during the first atomic bomb test in New Mexico on 16 July 1945. As the blast wave reached him,...

Envelope States Office of Personnel Management website list of standard forms. It is designed to contain a flat object, such as a letter or card. Back-of-the-envelope calculation Green envelope, a Malay custom Red envelope, a Chinese An envelope is a common packaging item, usually made of thin, flat material

== Arts, media and entertainment ==

A similar phrase in the U.S. is "back of a napkin", also used in the business world to describe

sketching out a quick, rough idea of a business or product. In British English, a similar idiom is "back of a fag packet". In the natural sciences, back-of-the-envelope calculation is often associated with physicist Enrico Fermi, who was well known for emphasizing ways that complex scientific equations could be approximated within an order of magnitude using simple calculations. He went on to develop a series of sample calculations, which are called "Fermi Questions" or "Back-of-the-Envelope Calculations" and used to solve Fermi problems. Imagine you are given two identical envelopes, each containing money. One contains twice as much as the other. You may pick one envelope and keep the money it contains. Having chosen an envelope at will, but before inspecting it, you are given the chance to switch envelopes. Should you switch? Generally, functional testing is black-box, meaning the internal program structure is ignored (unlike for white-box testing). In economics, where economic forecasts and statistics are often based on guesstimates; and Guesstimation techniques are used:

Back-of-the-envelope calculation It is more than a guess but less than an accurate calculation or mathematical proof. It is more than a A back-of-the-envelope calculation is a rough calculation, typically jotted down on any available scrap of paper such as an envelope. The defining characteristic of back-of-the-envelope calculations is the use of simplified assumptions. A back-of-the-envelope calculation is a rough calculation, typically jotted down on any available scrap of paper such as an envelope

Forty-five percent of the onions produced in India come from the states of Maharashtra and Karnataka. In November 2010, unseasonal and excessive rainfall in onion-producing regions such as Nashik in Maharashtra delayed the arrival of onions in markets. In December, when fresh crop usually begins to arrive, onion shipments were reduced from 2000 to 3000 tons a day to 700-800 tons a day in New Delhi markets, raising...

Rocket mass ratio A more efficient rocket design requires less propellant to achieve a given goal, and would therefore have a lower mass ratio; however, for any given efficiency a higher mass ratio typically permits the vehicle to achieve higher delta-v. typically permits the vehicle to achieve higher delta-v. It describes how much more massive the vehicle is with propellant than without. It is the ratio of the rocket's wet mass (vehicle plus contents plus propellant) to its dry mass (vehicle plus contents). The mass ratio is a useful quantity for back-of-the-envelope rocketry calculations: it is an easy In aerospace engineering, rocket mass ratio or simply mass ratio is a measure of the efficiency of a rocket

in cosmology, where the Drake equation is a well-known guesstimation method; == Overview == Δ Sometimes, functional testing is a quality assurance (QA) process. Since the situation is symmetric, it seems obvious that there is no point in switching envelopes. On the other hand, a simple calculation using expected values suggests the opposite conclusion, that it is always beneficial to swap envelopes, since the person stands to gain twice as much money if they switch, while the only risk is halving what they currently have. The estimation technique is named after physicist Enrico Fermi as he was known for his ability to make good approximate calculations with little or no actual data. An example is Enrico Fermi's estimate of the strength of the atomic bomb that detonated at the Trinity test, based on the distance traveled by pieces of paper he dropped from his hand during the blast. Fermi's estimate of 10 kilotons of TNT was well within an order of magnitude of the now-accepted value of 21 kilotons. Traditional envelopes are made from sheets of paper cut to one of three shapes: a rhombus, a short-arm cross or a kite. These shapes allow the envelope structure to be made by folding the sheet sides around a central rectangular area. In this manner, a rectangle-faced enclosure is formed with an arrangement of four flaps on the reverse side. In arithmetic, for example, when multiplying by 9, using the divisibility rule for 9 to verify that the sum of digits of the result is divisible by 9 is a sanity test—it will not catch every multiplication error, but is a quick and simple method to discover many possible errors. The concept of incorporating testing earlier in the delivery cycle is not restricted to functional testing.

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