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Of Facts Why Everything

**We Know Has An
Expiration Date Samuel
Arbesman**

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[The Half-Life Of Facts: Sam Arbesman at TEDxKC Kauffman Sketchbook — \"The Half-Life of Facts\" Sam Arbesman on The Half-Life of Facts \[On Books #46\] 'The Half-Life of Facts' with Samuel Arbesman \[audio\] The Complete Half-Life Timeline — From Half-Life to Half-Life Alyx Sam Arbesman Interview - The](#)

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~~Half-Life of Facts 101 Facts About Half-Life Half Life Expiration Date Samuel Alyx: The Story Explained Top 10 Facts — Half Life Gordon Freeman (Half Life): The Story You Never Knew + Treesicle Half-Life - Story Explanation and Analysis (Part 1) 10 Half-Life 2 Facts You Probably Didn't Know 15 Amazing Facts About The Half Life Series You Probably Don't Know Kauffman Foundation feat. Sam Arbesman "The Half-Life of Facts" - 321 Fast Draw Whiteboard 17 AMAZING Details in Half-Life: Alyx~~
Half-Life: Alyx - All Easter Eggs \u0026 Secrets Half Life 2 All Easter Eggs And Secrets HD QI | The Half-

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Life Of QI Facts An Half Life - 5 Weird Facts about G-Man

~~The Half Life Of Facts~~

The Half-Life of Facts is an engaging, popular introduction to several topics within information science. The title comes from the notion that one can measure the rate at which papers within a discipline become obsolete, assigning a half-life to each field.

~~The Half-life of Facts: Why Everything We Know Has an~~

~~...~~

The title of this book, "the half-life of facts" says that everything we know has an expiration date. However, this is misleading and what

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is really happening is improved accuracy of measurement for many of the author's "gotcha" examples.

~~The Half Life of Facts: Why
Everything We Know Has an~~

~~...~~

Consider The Half-life of Facts the new go-to book on the evolution of science and technology."--Tyler Cowen, professor of economics, George Mason University, and author of An Economist Gets Lunch "The Half-life of Facts is a rollicking intellectual journey. Samuel Arbesman shares his extensive knowledge with infectious enthusiasm and

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~~Half Life of Facts, The :
Expiration Date Samuel
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The half-life of knowledge or half-life of facts is the amount of time that has to elapse before half of the knowledge or facts in a particular area is superseded or shown to be untrue. These coined terms belong to the field of quantitative analysis of science known as scientometrics .

~~Half life of knowledge—
Wikipedia~~

Furthermore, they got a clear measurement of the half-life of facts in these

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fields by looking at where the curve crosses 50 percent on this chart: 45 years.

Essentially, information is like radioactive material: Medical knowledge about cirrhosis or hepatitis takes about forty-five years for half of it to be disproven or become out-of-date.

~~The Half-life of Facts —
Farnam Street~~

The Half-Life of Facts. In The Half-Life of Facts: Why Everything We Know Has an Expiration Date, Samuel Arbesman (see our Knowledge Project interview) posits that facts decay over time until they are no longer facts or perhaps no longer

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complete. According to Arbesman, information has a predictable half-life: the time taken for half of it to be replaced or disproved.

~~Half Life: The Decay of
Knowledge and What to Do
About It~~

Samuel Arbesman, a mathematician at Harvard, calls this "The Half-life of Facts", the title of his new book. In it he explains that this churn of knowledge is like radioactive decay: you cannot...

~~The Q&A: Samuel Arbesman —
The half life of facts ...~~
The Half-life of Facts is fun and fascinating, filled

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With wide-ranging stories and subtle insights about how facts are born, dance their dance, and die. In today's world, where knowledge often changes faster than we do, Samuel Arbesman's new book is essential reading."

~~Amazon.com: The Half Life of
Facts: Why Everything We
Know ...~~

Half-life, in radioactivity, the interval of time required for one-half of the atomic nuclei of a radioactive sample to decay (change spontaneously into other nuclear species by emitting particles and energy), or, equivalently,

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We know Has An required for the number of disintegrations per second of a radioactive material to decrease by one-half. Read More on This Topic.

~~half life | Definition & Facts | Britannica~~

Greetings Motherfactors! In today's video we're looking at one of the longest awaited video games, and one of the topics that you've asked for a lot in the p...

~~101 Facts About Half Life - YouTube~~

Valve is a mysterious bunch, and their flagship franchise, Half-Life, is no different, as the series is

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shrouded in uncertainty –and not just in its storytelling, but also in its development. RELATED: 5 Reasons Why Half-Life: Alyx Is Going To Be Valve's Comeback (& 5 Why It's Too Late) For over a decade, fans eagerly awaited for a successor to Half-Life 2: Episode 2 and, at long last, Half ...

~~10 Things You Didn't Know About The Half-Life Franchise~~

The original Half-Life hit PCs in 1998; the sequel finally dropped in 2004. That means, between them, the Half-Life franchise has at this point been around

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for fifteen years. In that
time, only a...

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~~10 Things You Didn't Know About Half-Life~~

Strontium-90 has a half-life
of 29 years. If starting
with a 2.2 lb (1 kg) mass of
strontium-90, then after 29
years there will only be
1.11 lb (0.5 kg) of
strontium-90 remaining.
After a further 29 years
there will only be 0.55 lb
(0.25 kg). Strontium-90
decays to give yttrium-90
and one free electron.

~~Half-life | Encyclopedia.com~~

“ The Half-life of Facts
teaches you that it is
possible, in fact, to drink

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from a firehose. Samuel Arbesman, an extremely creative scientist and storyteller, explores the paradox that knowledge is tentative in particularly consistent ways.

~~The Half Life of Facts by Samuel Arbesman:~~

~~9781591846512...~~

Cobalt-60, radioactive isotope of cobalt used in industry and medicine. Cobalt-60 is the longest-lived isotope of cobalt, with a half-life of 5.27 years. It is produced by irradiating the stable isotope cobalt-59 with neutrons in a nuclear reactor. Cobalt-60 is used

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in the inspection of
materials

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~~cobalt 60 | Uses, Half Life,
& Facts | Britannica~~

Half-life is the expected
value when half the number
of atoms have decayed.

Carbon-14 has a half-life of
5730 years. Taking one atom
of C-14, this will either
have decayed after 5730
years, or it will not. But
if this experiment is
repeated again and again, it
will be seen that the atom
decays within the half life
50% of the time.

~~Half life (element) Facts
for Kids | KidzSearch.com~~

The half-life of an isotope

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is the time on average that it takes for half of the atoms in a sample to decay. For example, the half-life of carbon-14 is 5730 years. This means that if you have a sample of carbon-14 with 1,000 atoms, 500 of these atoms are expected to decay over the course of 5730 years.

A scientometrics expert analyzes the changing nature of factual information to explain how knowledge in most fields evolves in systematic and predictable ways that, if properly understood, can be powerful tools for training and

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professional improvement.

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New insights from the science of science Facts change all the time. Smoking has gone from doctor recommended to deadly. We used to think the Earth was the center of the universe and that the brontosaurus was a real dinosaur. In short, what we know about the world is constantly changing. Samuel Arbesman shows us how knowledge in most fields evolves systematically and predictably, and how this evolution unfolds in a fascinating way that can have a powerful impact on our lives. He takes us

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through a wide variety of fields, including those that change quickly, over the course of a few years, or over the span of centuries.

Debunks popular beliefs and reveals the facts about political, cultural, scientific, and technological misconceptions, addressing such topics as Napoleon's stature, the danger of quicksand, and caffeine's effects on the body.

"You don't understand the software running your car or your iPhone. But here's a secret: neither do the geniuses at Apple or the Ph.

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Don'ts at Toyota--not perfectly, anyway. No one, not accountants, engineers, or doctors, fully grasps the rules governing your tax return, your internet connection, or your hospital's medical machinery. The same technological advances that have simplified our lives have made the systems governing our lives incomprehensible, unpredictable, and overcomplicated. Complexity scientist Samuel Arbesman offers a fresh, insightful field guide to living with complex technologies that defy human comprehension. As technology grows more

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complex, Arbesman argues, its behavior mimics the vagaries of the natural world more than it conforms to a mathematical model. If we are to survive and thrive in this new age, we must abandon our need for governing principles and rules and accept the chaos. We will become better thinkers, scientists, and innovators as a result. Lucid and energizing, this book is a vital new analysis of the world heralded as "modern" for anyone who wants to live wisely."--Back cover.

Sixteen-year-old
overachiever Lucille Harper

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agrees to be a beta tester for a secretive human cloning program, hoping her clone will meet her academic and family responsibilities and leave her free to figure out who she really is.

The USA Today bestselling author of *In Another Time* reimagines the pioneering, passionate life of Marie Curie using a parallel structure to create two alternative timelines, one that mirrors her real life, one that explores the consequences for Marie and for science if she'd made a different choice. In Poland in 1891, Marie Curie (then Marya Sklodowska) was

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engaged to a budding mathematician, Kazimierz Zorawski. But when his mother insisted she was too poor and not good enough, he broke off the engagement. A heartbroken Marya left Poland for Paris, where she would attend the Sorbonne to study chemistry and physics. Eventually Marie Curie would go on to change the course of science forever and be the first woman to win a Nobel Prize. But what if she had made a different choice? What if she had stayed in Poland, married Kazimierz at the age of twenty-four, and never attended the Sorbonne or discovered radium? What if she had chosen a life of

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domesticity with a constant hunger for knowledge in Russian Poland where education for women was restricted, instead of studying science in Paris and meeting Pierre Curie? Entwining Marie Curie's real story with Marya Zorawska's fictional one, *Half Life* explores loves lost and destinies unfulfilled—and probes issues of loyalty and identity, gender and class, motherhood and sisterhood, fame and anonymity, scholarship and knowledge. Through parallel contrasting versions of Marya's life, Jillian Cantor's unique historical novel asks what would have happened if a

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great scientific mind was denied opportunity and access to education. It examines how the lives of one remarkable woman and the people she loved - as well as the world at large and course of science and history—might have been irrevocably changed in ways both great and small.

The fascinating, curious, and sometimes macabre history of radium as seen in its uses in everyday life. Of all the radioactive elements discovered at the end of the nineteenth century, it was radium that became the focus of both public fascination and

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entrepreneurial zeal. Half Lives tells the fascinating, curious, sometimes macabre story of the element through its ascendance as a desirable item - a present for a queen, a prize in a treasure hunt, a glow-in-the-dark dance costume - to its role as a supposed cure-all in everyday twentieth-century life, when medical practitioners and business people (reputable and otherwise) devised ingenious ways of commodifying the new wonder element, and enthusiastic customers welcomed their radioactive wares into their homes. Lucy Jane Santos—herself the proud owner of a formidable

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collection of radium beauty treatments—delves into the stories of these products and details the gradual downfall and discredit of the radium industry through the eyes of the people who bought, sold and eventually came to fear the once-fetishized substance. Half Lives is a new history of radium as part of a unique examination of the interplay between science and popular culture.

This report from the Committee on Military Nutrition Research reviews the history of caffeine usage, the metabolism of caffeine, and its

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physiological effects. The effects of caffeine on physical performance, cognitive function and alertness, and alleviation of sleep deprivation impairments are discussed in light of recent scientific literature. The impact of caffeine consumption on various aspects of health, including cardiovascular disease, reproduction, bone mineral density, and fluid homeostasis are reviewed. The behavioral effects of caffeine are also discussed, including the effect of caffeine on reaction to stress, withdrawal effects, and detrimental effects of high intakes. The amounts of

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caffeine found to enhance
vigilance and reaction time
consistently are reviewed
and recommendations are made
with respect to amounts of
caffeine appropriate for
maintaining alertness of
military personnel during
field operations.

Recommendations are also
provided on the need for
appropriate labeling of
caffeine-containing
supplements, and education
of military personnel on the
use of these supplements. A
brief review of some
alternatives to caffeine is
also provided.

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In modern-day England, where
witches live alongside
humans, Nathan, son of a
White witch and the most
powerful Black witch, must
escape captivity before his
seventeenth birthday and
receive the gifts that will
determine his future.

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