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2019 . Week 21 . Jun 1 - Jun 8

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to power your imagination
of what interesting art, ads,
sponsorship, standard
frontmatter or blank space
should be included in
future editions of scale.

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七 qī is the numeral 7.

七 qī is the number 7. Originally a cross, two strokes. The shape has evolved. Honestly, you do not want to read deeper into the number 7 Wikipedia entry (it is too good so included in this issue). 7 is a Mersenne Prime. 7 was consider the God number in Ancient Egypt. 6 is a great hand gesture in China. 7 is all fingers clasped together. It is commonly used. 7 times 3 is 21, Scale 21

21 21. From Wiktionary: <https://en.wiktionary.org/wiki/七>

From Number 6: <https://en.wikipedia.org/wiki/7>

From Hand Signals:

https://en.wikipedia.org/wiki/Chinese_number_gestures

From Wikipedia:

https://en.wikipedia.org/wiki/Chinese_numerals

21 21 21

Scale 21 Editors Column

Jon Phillips, jon@rejon.org, <https://rejon.org>

What a week! What happened? Did you learn a lot? I DID! The zerowaste concepts are growing everywhere and other people are also practicing zeroists. As the founder of Foxconn, who builds nearly everyones electronics in China and globally says, CONSTANTLY LEARNING.

The zerowaste philosophy grows on you as you have more energy and find more value in hunger and quality of flavors and taste. So will I eat meat or eggs or cheese, totally! If it is left as waste. I do not prefer these in my diet. I prefer lowest amount of energy possible to get myself the maximum energy possible. Fruit and vegetables are also the most reliable in this day and age. The zeroist removes as many 3rd parties as possible.

Here are my thoughts about zerowaste simply from my walk between work and home last night:

Yes, late night writing. Had several energist thoughts and I have to ask them now:

- Glass? Plastic? Aluminium? How much does it cost to get my cheap drink? My gut says use none of the above, and if do have a choice, use glass. Anyone have feedback here?
- Take a straight line of sight between home and work. It saves energy and keeps out distractions.
- If I need something from someone, and they have a requirement, I may use energy.
- Really on the fence on alcohol etc. Current rule is not to buy 3rd party things at all. There is the added benefit of more time for focus and thinking, but come on, beer is good! What is unnatural about that? but what about all those beer bottles, cans, wine bottles, cans? Monkeys eat fermented fruits. Any feedback here?
- hk is zerowaste ground zero. So many friends are leaving HK because it is dying, x, y and z. My feedback: BYE. HK is home to the best business people an optimization experts on the planet. They are Cantocore to the bone! They can survive on less than you and make more than you off of NOTHING. The deep hidden underground cultures of Hong Kong and Southern China will be around long after the New Energists, the Trumps and Bidens are dust...
- If someone offers me food or drink, I may consider

it...do not want to waste...and do not want to be disrespectful.

- Eating at restaurants is the worst. It is wasteful and often food is not up to standard. Your body is a big chemistry set. Be skeptical.
- On airplanes, I think I have to wait for someone else to buy me a ticket! same for travel. How can I go back? Flying globally around the world, massive energy loss and damage! That needs serious thought before put into practice.
- I must consider all energy output, and save where possible! This is ongoing.
- Tidy up regularly. There is energy loss from disorganization and energy is gained by organizing too! Also, knowing where things are located is great with minimalism, but also saves energy.

Still thinking, but these seem to fit current thinking.

Also, bravists are people with linked public identity and virtual identity. They are the BRAVIST amongst us. I am talking artists and so many people who have not had or do not consider they are in a dark forest. Well, maybe you will learn some day?

Quick catch-up on thinking. In this issue of Scale 21 21 21 21, we include a writing by Aaron Owens about his artwork and what it means. It deserves serious thought. Aaron is a special person to me. He represents the best of what we may become and chooses to live in St. Louis, a place with so much depth and culture, that I am even hesitant to let the secret out...shhhhhhhhhhh... :) Seriously, read on for Aaron's writing. He is an artist, and a mapmaker everyone? He designs parks!

Clement Renaud also shared a writing he made in French that is about Shenzhen for his local Lyon France government. I was thinking to translate to English, then Chinese, and then realized both will lose meaning. So it stands, in French and I encourage you to plow through it and give feedback to Clement on twitter where he is a social media addict and has a weakness in replying to you and retweeting your messages :)

Yes, that is an ENERGIST ENERGY ALERT. A chink in the armor of Clement anyone may exploit. Try it :)

Almost back on track will do a quick turnaround on Scale 22 coming up, so get your writings in. There is more coming on our dear friend Ilya who passed away recently and had a service on June 1, 2019 in Taipei, the land of energy rejuvenation.

Mapmaker Aaron Owens Shares Path

Written on June 7th, 2019 by Aaron Owens



Art Speak

Oui asked Aaron to write about the current state of his artwork and what it means. This is his un-edited writing.

The purpose seems to be to open myself up, share myself through taste. The things I like, the things I am attracted to say something about me in inexpressible ways. And that's enough. I struggle with tying it all together and constructing a narrative meant to define and categorize and make money. What I share is what I am attracted too and that's enough. The narrative is me.

But what am I attracted too? Themes develop from the subconscious and include transitional landscapes, cultural totems, geometric pattern, and light and shadow. I'm attracted to these things as clues to the understanding of place. Pulled from my geographic background and spit back up as art the pictures are a result of curiosity and an addiction to the imaginative joy of thinking into a still image life and history and substance of my own making. There is also the attraction of organization, the ability to make and recognize pattern both real and imagined, to see through objects into light and color and shadow, is to linger inside the primal. It is natural and fun and sparks a way of seeing the world beyond judgement and history. It's basic, it's what we are always seeing before the filters of memory transform.

There is video in there too and some audio but it all stems from the picture making which stems from my being out in the world. My experience interacting with and traversing the landscape. The visual work I share is a memoir of clues. There is no other message of caution or proselytizing, no great conversation with dead artists. The photos are personal, snapshots of a world, not part of a larger project outside of myself as a project.

What do I see when I look at a photo I have taken? It's memory mostly but sometimes I also see the layers underneath the landscape. These are the clues of inhabitants, of a unique ecosystem limited in time and place, to the here and now or the there and then. It is a scene telling a timeline with all the story there if you take the time to look close enough. Or not, sometimes it's just a picture of a pretty fire hydrant.

What's next? More of the same. I hope it's very different. There are impulses in me that push towards the subdued, the small and the calm. I find myself less interested in the large and the high definition that obscures through technology and novelty and makes honest communication more difficult to discern. Enough noise is being made to allow for a pocket of quiet within the din. So maybe I fold inward and whittle away, offering up small art to people I care about, the people who might actually stand a chance at seeing it for what it is or what I want it to be, an invitation where my words leave off.

Aaron Owens (b. 1986) is a cartographer making art from marginal landscapes that intersect human and natural forms. His work explores themes of surveillance, human versus nature and holistic approaches to modern ecology.

[Join Aaron's Story](#)

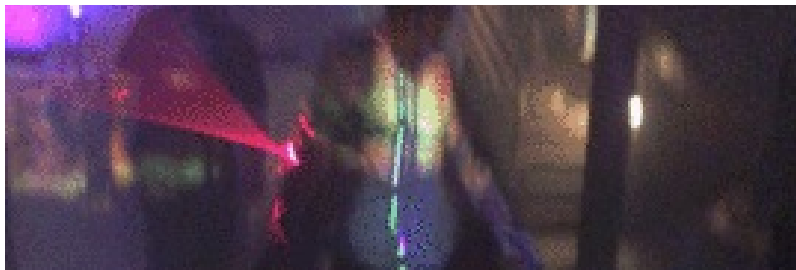
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Clément RENAUD

Consultant indépendant, Chercheur à l'EPFL Lausanne, spécialisé dans l'analyse et la visualisation de données, Réseau de Veille DPDP

DES MACHINES NE SUFFIRONT PAS À RECONSTRUIRE UNE CULTURE INDUSTRIELLE EN MÉTROPOLE

L'enquête menée en 2018 par la DPDP montre bien comment le paysage des start-up en métropole est le fruit d'un travail patient d'acteurs avant tout locaux. Loin des rêves de « *passage à l'échelle* » internationale, les jeunes entreprises lyonnaises se construisent *ad hoc* en habitant et en s'inscrivant dans le projet du territoire métropolitain. Ces premiers résultats interrogent les discours institutionnels sur les start-up, centrés sur la rentabilité financière dans une réalité économique où l'accès aux marchés, expertises et infrastructures de production restent difficiles. Pour les jeunes entreprises, l'enjeu est d'abord de réussir à trouver leur place localement dans une économie mondialisée.

Fabriquer un projet de société

Après une décennie d'investissements et de rachats massifs, l'économie du numérique – premier secteur industriel – s'est aujourd'hui structurée autour de peu d'acteurs extrêmement dominants qui bénéficient d'effets de réseau gigantesques. Désormais chasse gardée, l'industrie de l'information a perdu de son attractivité. L'attention se tourne en ce moment vers la fabrication, nouvelle source de promesses économiques. En effet, les progrès de la robotique et la baisse du coût des machines annoncent de grands changements dans les procédés de fabrication et dans l'organisation de la production industrielle. Pourtant, la question reste entière : quel avenir souhaitons-nous fabriquer ? Bien plus qu'un agent économique, l'industrie existe avant tout comme un puissant vecteur de transformation du monde, comme le prouve aujourd'hui les changements du climat.

En France, trente années de désindustrialisation ont conduit à un exode massif des usines, notamment vers l'Asie. Dans ce contexte, les métropoles européennes se sont rêvées en « ville créative », têtes pensantes d'un réseau mondial voué à nourrir leur projet local. L'usine, autrefois centre de la vie urbaine, a alors été vidée de la fabrication pour devenir désormais une ressource culturelle. La réussite indéniable des friches industrielles en projet culturel masque pourtant mal le traumatisme d'une population ouvrière brutalement déclassée au rang de récit du passé.

Notre place dans le monde

La délocalisation des usines s'est accompagnée du transfert de nombreux savoir-faire manufacturiers et – plus grave – du départ vers l'Asie du projet socio-économique porté par la fabrication. Le centre de gravité économique mondial s'est déplacé vers le Pacifique suite à l'énorme flux d'investissements directs depuis 1980. La Chine, principal récipiendaire, a bénéficié de cette dynamique pour développer une formidable capacité de production industrielle aujourd'hui inégalée.

La zone économique spéciale de Shenzhen, à côté de Hong Kong, est sans doute le meilleur témoin de cette histoire. Petit village de pêcheurs en 1980, elle est devenue aujourd'hui une mégalopole de près de 15 millions d'habitants. Des usines y assemblent la quasi-intégralité des produits électroniques mondiaux. Loin du cliché tenace du *Made in China* bas de gamme, elle abrite aujourd'hui les leaders mondiaux de secteurs en pleine expansion comme l'équipement électronique, le jeu vidéo, les micro-paiements, l'intelligence artificielle, le drone, la génomique, les véhicules électriques, et d'autres encore. Le plan urbain prévoit dans cette région plus de cent millions d'habitants d'ici quelques années.

Shenzhen, nouveau visage du monde industriel, n'est qu'une des centaines de métropoles émergentes d'Asie, d'Afrique et du Moyen-Orient. La question se pose alors : de quoi nos « *tech* » sont-ils les « *champions* » ? Autrement dit, quel projet de société portent les start-up de France et de la métropole lyonnaise ? S'il y a une leçon à tirer du développement récent de la Chine, c'est la suivante : l'industrie, qu'elle soit numérique ou pas, existe pour construire la société.

Imaginer une métropole à fabriquer

À l'échelle métropolitaine, développer une capacité industrielle nécessite d'envisager un futur qui dépasse les problèmes financiers et économiques de court-terme et se projette dans les enjeux de préservation de la diversité biologique et sociale. Un nouveau développement industriel doit se bâtir non pas sur la production de la ville elle-même, mais sur son articulation au reste du monde, à commencer par sa périphérie et les régions qui l'entourent.

Le discours ambiant a substitué à la vieille idée de progrès celle d'innovation, parent pauvre et utilitariste dépossédé de ses aspirations sociales. Pourtant, le devenir *fab city*, idylle post-numérique où les usines tourneraient de nouveau à plein régime, ne se fera pas sans l'adhésion de la population. Le *Made in France* n'existera pas sans la Chine, l'Inde ou l'Afrique. Un nouvel imaginaire de l'industrie ne se construira pas sans référence aux générations d'ouvriers, contremaîtres, chefs d'ateliers et gestionnaires d'usines maltraités. L'investissement à prévoir ne se résume pas à un simple projet d'acquisition de machines ou de talents.

La création d'une nouvelle dynamique industrielle en métropole exige d'abord de s'affranchir des préconceptions territoriales : les capacités de production, d'innovation ou d'emplois de Lyon ne sont ni celles de Palo Alto ni celles de Shenzhen, et ne le deviendront jamais. Le projet industriel métropolitain doit se construire d'abord à son échelle en portant attention à son cadre de vie unique, l'offre de formation universitaire, les domaines de pointes comme la biotechnologie et la diversité de populations qui forment des liens avec le monde entier. Ces multiples richesses de la métropole seront les atouts qui lui permettront d'imaginer son futur et une industrie capable de le bâtir.

Le mythe des « *licornes* », ses start-up milliardaires, semblent loin des réalités sociales et politiques qui animent aujourd'hui la France. Le succès du français *Blablacar*, cité régulièrement comme exemple, ne saurait se comprendre sans l'effondrement de ce qui a longtemps constitué le fer de lance du projet d'intégration territorial français : son réseau de transport ferroviaire. Ériger en modèle un acteur qui est le produit du démantèlement de cette pièce centrale de la vie française témoigne d'une mission

problématique de start-up devenues exploitantes de territoires déjà extrêmement affaiblis et divisés. D'autres modèles prometteurs d'activités sont aujourd'hui à identifier dans le travail quotidien des nombreux acteurs de l'écosystème local, très actif et plus ancré dans la réalité des demandes de la population métropolitaine. ■



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GRANDLYON
la métropole

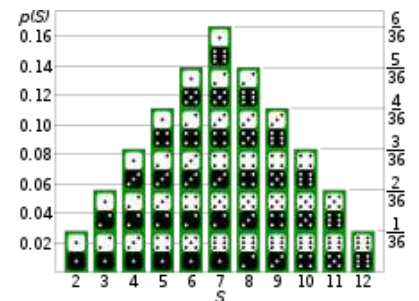
Mathematics

Thai	๗
Kannada	೭

- Seven, the fourth prime number, is not only a Mersenne prime (since $2^3 - 1 = 7$) but also a double Mersenne prime since the exponent, 3, is itself a Mersenne prime. It is also a Newman–Shanks–Williams prime,^[1] a Woodall prime,^[2] a factorial prime,^[3] a lucky prime,^[4] a happy number (happy prime),^[5] a safe prime (the only Mersenne safe prime), and the fourth Heegner number.^[6]
- Seven is the lowest natural number that cannot be represented as the sum of the squares of three integers. (See Lagrange's four-square theorem#Historical development.)
- Seven is the aliquot sum of one number, the cubic number 8 and is the base of the 7-aliquot tree.
- 7 is the only number D for which the equation $2^n - D = x^2$ has more than two solutions for n and x natural. In particular, the equation $2^n - 7 = x^2$ is known as the Ramanujan–Nagell equation.
- 7 is the only dimension, besides the familiar 3, in which a vector cross product can be defined.
- 7 is the lowest dimension of a known exotic sphere, although there may exist as yet unknown exotic smooth structures on the 4-dimensional sphere.
- 999,999 divided by 7 is exactly 142,857. Therefore, when a vulgar fraction with 7 in the denominator is converted to a decimal expansion, the result has the same six-digit repeating sequence after the decimal point, but the sequence can start with any of those six digits.^[7] For example, $1/7 = 0.142857\ 142857\dots$ and $2/7 = 0.285714\ 285714\dots$

In fact, if one sorts the digits in the number 142,857 in ascending order, 124578, it is possible to know from which of the digits the decimal part of the number is going to begin with. The remainder of dividing any number by 7 will give the position in the sequence 124578 that the decimal part of the resulting number will start. For example, $628 \div 7 = 89\frac{5}{7}$; here 5 is the remainder, and would correspond to number 7 in the ranking of the ascending sequence. So in this case, $628 \div 7 = 89.714285$. Another example, $5238 \div 7 = 748\frac{2}{7}$, hence the remainder is 2, and this corresponds to number 2 in the sequence. In this case, $5238 \div 7 = 748.285714$.

- A seven-sided shape is a heptagon. The regular n -gons for $n \leq 6$ can be constructed by compass and straightedge alone, but the regular heptagon cannot. Figurate numbers representing heptagons (including seven) are called heptagonal numbers. Seven is also a centered hexagonal number.^[8]
- Seven is the first integer reciprocal (multiplicative inverse) with infinitely repeating sexagesimal representation.
- There are seven frieze groups, the groups consisting of symmetries of the plane whose group of translations is isomorphic to the group of integers.
- There are seven fundamental types of catastrophes.
- When rolling two standard six-sided dice, seven has a 6 in 36 (or $\frac{1}{6}$) probability of being rolled (1–6, 6–1, 2–5, 5–2, 3–4, or 4–3), the greatest of any number.
- The Millennium Prize Problems are seven problems in mathematics that were stated by the Clay Mathematics Institute in 2000. Currently, six of the problems remain unsolved.
- 7 is the last digit of Graham's number.



Graph of the probability distribution of the sum of 2 six-sided dice

Basic calculations

<u>Multiplication</u>	1	2	3	4	5	6	7	8	9	10	15	25	50	100	1000
$7 \times x$	7	14	21	28	35	42	49	56	63	70	105	175	350	700	7000

<u>Division</u>	1	2	3	4	5	6	7	8	9	10
	11	12	13	14	15					
$7 \div x$	7	3.5	$2\bar{3}$	1.75	1.4	$1.1\bar{6}$	1	0.875	$0.\bar{7}$	0.7
$x \div 7$	$0.\bar{63}$	$0.58\bar{3}$	$0.53846\bar{1}$	0.5	$0.4\bar{6}$					
	$0.\overline{142857}$	$0.\overline{285714}$	$0.\overline{428571}$	0.571428	$0.\overline{714285}$	0.857142	1	$1.\overline{142857}$	$1.\overline{285714}$	$1.\overline{428571}$
	$1.\overline{571428}$	$1.\overline{714285}$	$1.\overline{857142}$	$\underline{2}$	$2.\overline{142857}$					

Exponentiation	1	2	3	4	5	6	7	8	9	10
7^x	7	49	343	2401	16807	117649	823543	5764801	40353607	282475249
x^7	1	128	2187	16384	78125	279936	823543	2097152	4782969	10000000

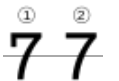
Radix	1	5	10	15	20	25	30	40	50	60	70	80	90	100
	110	120	130	140	150	200	250	500	1000	10000	100000	1000000		
x_7	1	5	13 ₇	21 ₇	26 ₇	34 ₇	42 ₇	55 ₇	101 ₇	114 ₇	130 ₇	143 ₇	156 ₇	202 ₇
	215 ₇	231 ₇	244 ₇	260 ₇	303 ₇	404 ₇	505 ₇	1313 ₇	2626 ₇	41104 ₇	564355 ₇	11333311 ₇		

Evolution of the glyph

In the beginning, various Hindus wrote 7 more or less in one stroke as a curve that looks like an uppercase J vertically inverted. The western Ghubar Arabs' main contribution was to make the longer line diagonal rather than straight, though they showed some tendencies to making the character more rectilinear. The eastern Arabs developed the character from a 6 lookalike into an uppercase V lookalike. Both modern Arab forms influenced the European form, a two-stroke character consisting of a horizontal upper line joined at its right to a line going down to the bottom left corner, a line that is slightly curved in some font variants. As is the case with the European glyph, the Cham and Khmer glyph for 7 also evolved to look like their glyph for 1, though in a different way, so they were also concerned with making their 7 more different. For the Khmer this often involved adding a horizontal line above the glyph.^[9] This is analogous to the horizontal stroke through the middle that is sometimes used in handwriting in the Western world but which is almost never used in computer fonts. This horizontal stroke is, however, important to distinguish the glyph for seven from the glyph for one in writings that use a long upstroke in the glyph for 1. In some Greek dialects of early 12th century the longer line diagonal was drawn in a rather semicircular transverse line.



On the seven-segment displays of pocket calculators and digital watches, 7 is the number with the most common glyph variation (1, 6 and 9 also have variant glyphs). Most calculators use three line segments, but on Sharp, Casio, and a few other brands of calculators, 7 is written with four line segments because, in Japan, Korea and Taiwan 7 is written as ① in the illustration to the right.



While the shape of the 7 character has an ascender in most modern typefaces, in typefaces with text figures the character usually has a descender, as, for example, in o78.

7 Most people in Continental Europe,^[10] and some in Britain and Ireland as well as Latin America, write 7 with a line in the middle ("7"), sometimes with the top line crooked. The line through the middle is useful to clearly differentiate the character from the number one, as the two can appear similar when written in certain styles of handwriting. This glyph is used in official handwriting rules for primary school in Russia, Ukraine, Bulgaria, Poland, other Slavic countries,^[11] France, Italy, Belgium, Finland,^[12] Romania, Germany, Greece,^[13] and Hungary.^[14]

Automotive and transportation

- 7 (New York City Subway service), a service of the New York City Subway
- BMW 7 Series, a flagship range of luxury vehicles from German automobile manufacturer, BMW.
- The Lotus Seven, a sports car produced by Lotus
- Each airplane in Boeing's line of passenger jets is named with a 3-digit palindromic number beginning and ending with the number 7.

Classical world

Classical antiquity

- Seven deadly sins
- Seven Classical planets ("7 Luminaries")
- Seven Metals of antiquity
- Seven Heavens

- [Seven days in the week](#)
- [Seven colors in the rainbow](#)
- [Seven Seas](#)
- [Seven Continents](#)
- [Seven against Thebes](#)
- [Seven Kings of Rome](#)
- [Seven hills of Istanbul](#)
- [Seven hills of Rome](#)
- [Seven Liberal Arts](#)
- [Seven Sages of the Bamboo Grove in China](#)
- [Seven Sages of Greece](#)
- [Saptarishi](#) – Seven Sages concept in Ancient India
- [Seven Wise Masters](#), a cycle of medieval stories
- [Seven Wonders of the ancient world](#)
- 7 was considered a God number in ancient [Egypt](#). The Pharaoh usually ordered things in groups of multiples of 7. For a time, 7 was not even used in writings for the people of Egypt.^[15]
- 7 pure notes in the [diatonic scale](#)

Commerce and business

- [7-Eleven](#) is the trading name of a chain of convenience stores based in the U.S.
- [Seven Jeans](#), also known as *Seven '7' for all Mankind*, a brand of designer jeans.
- [SEVEN](#), an Indian lifestyle brand.

Food and beverages

- [7 Up](#) is the name of a popular soft drink.

Media and entertainment

Film

- [Seven Arts Productions](#)
- [Seven Arts Pictures](#)

Characters

- [James Bond's](#) secret agent number is 007.
- *Star Trek: Voyager* features a character named [Seven of Nine](#).
- The *Star Trek: The Original Series* episode "[Assignment: Earth](#)" features a character named Gary Seven.

Titles

- *Se7en*, also just called *Seven*, is a 1995 movie about a serial killer basing his murders and victims on the [seven deadly sins](#).
- *Seven Chances* (1925) starring [Buster Keaton](#).
- The Disney film *Snow White and the Seven Dwarfs* (1937).
- *Seven Sinners* (1940) directed by [Tay Garnett](#), starring [Marlene Dietrich](#).
- The musical film *Seven Brides for Seven Brothers* (1954).
- *Seven Samurai* (1954) by [Akira Kurosawa](#) starring [Toshiro Mifune](#).
- The Marilyn Monroe film *The Seven Year Itch* (1955) which is famous for her white dress billowing up from a grate.
- The Swedish film *The Seventh Seal* (1957) directed by [Ingmar Bergman](#).
- The American western film *The Magnificent Seven* (1960) starring [Yul Brynner](#).
- *7 Faces of Dr. Lao* (1964) starring [Tony Randall](#) and [Barbara Eden](#).
- *Seven Days in May* (1964) starring [Burt Lancaster](#), [Kirk Douglas](#) and [Fredric March](#).
- *The Seventh Sign* (1988), directed by [Carl Schultz](#) and starring [Jürgen Prochnow](#) and [Demi Moore](#).
- *Seven Years in Tibet* (1997), directed by [Jean-Jacques Annaud](#) and starring [Brad Pitt](#).
- *Seven Pounds* (2008), starring [Will Smith](#).

- *The Magnificent Seven* (2016) starring Denzel Washington.

Games

- Lotto Super 7, a Canadian-lottery game that had its final drawing September 18, 2009.
- Sevens, a card game.
- Seven is the sum of any two opposite sides on a standard six-sided die.
- In the game of craps, a dice roll of 7 on the come-out constitutes a "natural" and the Pass line wins immediately. However, if the shooter (dice thrower) rolls a 4, 5, 6, 8, 9, or 10 on the come-out roll, that number becomes his "point". Now, the shooter must repeat his point before he throws a seven. If he repeats his point, the Pass line wins. If he rolls a seven, not only does the Pass line lose, the shooter loses control of the dice. This is called a "seven-out".

Video games

- *The 7th Guest*, produced by Trilobyte and released by Virgin Games in 1993, is an FMV-based puzzle horror video game.
- "The 7" are a group of deadly mercenaries that kidnap the protagonist's family in the video game *Kane & Lynch: Dead Men*.
- In the *Killer7* game, the number of individual personalities serving Harman Smith as part of the group of assassins called the Killer7.
- In *999: Nine Hours, Nine Persons, Nine Doors*, one of the characters goes by the code name "Seven".
- In the *Fallen London* story *Seeking Mr. Eaten's Name*, the number 7 is a recurring theme.
- In the racing video game *Mario Kart 7*, there is an item called the Lucky Seven.

Literature

- *As You Like It* by William Shakespeare's contains the 7 Ages of Man theory of medieval philosophy.
- In *Beloved*, the novel by Toni Morrison, the number seven seems to have recurring significance. "Beloved" has seven letters, 124 adds up to seven, each chapter begins on a number containing seven, and the second chapter contains seven parts.
- The original British version of Anthony Burgess' novel *A Clockwork Orange* is split into three sections of seven chapters.
- In the first of the three *Deltora Quest* series of books by Emily Rodda, the protagonist must collect the seven gems of the fabled Belt of Deltora: topaz, ruby, opal, lapis lazuli, emerald, amethyst, and diamond. Each of the seven gems are guarded by one of seven guardians located in one of the seven locations around Deltora: The Forests of Silence, Lake of Tears, City of the Rats, The Shifting Sands, Dread Mountain, Maze of the Beast, and Valley of the Lost.
- In the *Dragon Ball* series, there are seven crystalline spheres known as the Dragon balls. Each Dragon ball has a certain number of stars on it displaying its respective number in the set.
- The manga *Eureka Seven*, based on the anime series.
- In *Fist of the North Star* (*Hokuto no Ken*), the main character, Kenshiro, is also known as "the man with seven wounds" for the seven scars on his body in the shape of the Big Dipper.
- In the *Fushigi Yuugi* manga series, the four beast gods each have seven warriors, the Genbu Seven, the Byakko Seven, the Seiryuu Seven, and the Suzaku Seven.
- In the *Harry Potter* series of novels by J.K. Rowling, seven is said to be the most powerfully magical number. There are a number of references to seven in *Harry Potter*: there are a total of seven books in the series; Ginny Weasley is the seventh child and only daughter of the Weasley family; Harry Potter was born in July, the seventh month of the year; Wizarding students must complete seven years of school at Hogwarts; There are seven secret passages leading out of Hogwarts; Seven is also the number on the back of Harry Potter's Quidditch robes (*Prisoner of Azkaban* movie). Professor Moody was also hidden in a chest with an underground cubby, which was locked with seven locks Harry Potter and the Goblet of Fire. In Quidditch each team consists of seven players. Chapter four of Book 7 is titled "The Seven Potters". Lord Voldemort planned on making six Horcruxes (objects containing parts of his soul), so that his soul would exist in seven parts, but made an extra one, making a total of seven Horcruxes.
- In the *InuYasha* series, the Shichinintai are, as their name says, a band of seven mercenaries.
- The Seven Rings of the Vongola Family in *Katekyo Hitman Reborn*: Sky, Storm, Rain, Sun, Thunder, Mist, and Cloud.
- In *The Lost Years of Merlin* series, a book is titled "The Seven Songs of Merlin".
- The character 7 (Nana) and the organization Septimal Moon in *Loveless* (manga)
- In the *Nana* manga series, there are many recurrent instances of the number seven ("nana" is Japanese for "seven"), including the name of both main characters.
- Team 7 consists of the main characters in *Naruto*: Naruto Uzumaki, Sasuke Uchiha, Sakura Haruno, and Kakashi Hatake. Later in the series, Sai joins Team 7 (now called Team Kakashi) after Sasuke left Konohagakure.
- One of the Tailed Beasts, in the unnamed *Naruto* universe, which is the Seven-Tailed beast, and a giant Kabutomushi, was revealed to be named Chōmei, and the jinchūriki host to the young kunoichi Fū. Has six dragonfly-like wings that makes up six of its tails, and a long stem that also makes up its actual tail.
- In the *One Piece* series, the Shichibukai (literally, "Seven Military Seas", known in the English versions as the "Seven Warlords of the Sea") are seven powerful pirates who work for the government.
- *The Saga of Seven Suns*, a series of seven novels by Kevin J. Anderson.
- In Neil Gaiman's *Sandman* series, there are 7 Endless: Destiny, Death, Dream, Destruction, Despair, Desire and Delirium.

- *The Secret Seven*, name of a children's adventure book by Enid Blyton.
- In the *Septimus Heap* series, Septimus is the seventh son of a seventh son, 7 is believed to be the most magical number. There will also be seven books in the series, along with many other things relating to the number 7.
- Aleksis Kivi's *Seven Brothers*, the most famous book of Finnish literature.
- *The Seven Dials Mystery* by Agatha Christie.
- *The Seven Habits of Highly Effective People*, a book by Stephen Covey.
- *Seven Pillars of Wisdom*, a book written by T.E. Lawrence.
- The book *Seven Years in Tibet*.
- The novel *Seven Days in May*, written by Fletcher Knebel.
- In *The Silmarillion*, also a Tolkien work, there are seven Lords of the Valar, and seven Ladies of the Valar; Fëanor, a central character, has seven sons: Maedhros, Maglor, Celegorm, Curufin, Caranthir, Amrod, and Amras.
- In George R.R. Martin's *A Song of Ice and Fire*, seven gods, the Mother, the Father, the Warrior, the Crone, the Smith, the Maiden, and the Stranger, are worshipped in the land of Westeros, which is made up of seven former kingdoms and often called the Seven Kingdoms. The Seven are the primary deities of Westeros.
- In W.E.B. Du Bois's book *The Souls of Black Folk*, he refers to "the Negro" as "the seventh son".
- In *The Tales of Alvin Maker*, an alternate history fantasy series by Orson Scott Card, seventh sons are imbued with special powers, referred to as "knacks", over the physical world. The powers of a seventh son of a seventh son, the birthright of the series' main character, Alvin Smith, are especially pronounced. Men who wield these powers to create are referred to as "Makers".
- In *Toaru Majutsu no Index*, there are a total of seven Level 5 espers: Accelerator, Kakine Teitoku, Misaka Mikoto, Mugino Shizuri, Shokuhou Misaki, an unknown esper and Sogiita Gunha.
- In *The Two Towers*, the second volume of J.R.R. Tolkien's *The Lord of the Rings*, the following poem appears: "Tall ships and tall kings/Three times three/What brought they from the foundered land/Over the flowing sea?/Seven stars and seven stones/And one white tree." The "founded land" is Númenor, and the "Seven Stars" are unknown, but they may refer to a constellation, the Sickel of the Valar. The Seven Stones are the *palantíri*, the seeing-stones. The number seven was also significant to Dwarvish culture as portrayed by Tolkien: there were seven fathers of the Dwarves (as recounted in *The Silmarillion*) and the Dwarves were later given seven rings by Sauron (according to *The Lord of the Rings*).
- David Eastis authored two books about the popular number seven both with the title "7".
- Jackie Leo wrote "Seven".
- *We are Seven* by William Wordsworth.
- Marina or *Number Seven* is a character in the book series *The Lorien Legacies*.
- *The Revenge of Seven* by Pittacus Lore.
- In Rick Riordan's series *The Heroes of Olympus* there are seven heroes of the Great Prophecy: Percy Jackson, Annabeth Chase, Jason Grace, Piper McLean, Leo Valdez, Hazel Levesque, and Frank Zhang.

Music

- The number of notes in the traditional Western diatonic scale (major or minor).
- In music, the Roman numeral vii is the leading tone (vii°) or subtonic (VII) scale degree, chord (leading-tone seventh chord or secondary leading-tone chord), or diatonic function, when distinguished V = major and v = minor.
- The original diameter in inches of the 45rpm format gramophone record.
- There are seven musicians in a septet or a septuor.
- There are seven basic *swaras* [*saptaswaras*] in Indian Carnatic music.
- "7" is a song by Prince and The New Power Generation, from the 1992 Love Symbol Album.
- 7 is a 2003 Enrique Iglesias album.
- 7 (Mick Thompson) is one of the guitarists for popular metal band Slipknot.
- *Sweet 7* is an album by Sugababes.
- The number of dastgahs in Persian traditional music.
- *Seventh son of a Seventh son* is the 7th album of the English heavy metal band Iron Maiden, brought out in 1988.
- *Sevens* is the 7th album by Country singer Garth Brooks, released in 1997, consisting of 14 songs(2 sets of 7).
- "Seven" is a song by Megadeth on their 1999 album *Risk*.
- UK-based alt-rock band, *Take The Seven* (TTVII).
- "The Munificent Seven" is the appended parenthetical title for the song "Love Is Stronger Than Justice" on Sting's 1993 album *Ten Summoner's Tales*.
- "Seven" is a song on David Bowie's album *Hours*.
- *Seven Swans* is the name of the 2004 album by Sufjan Stevens.
- 7 is an alias of Mexican musician Juan Son.
- 7 (O.S.T.R. album) is the seventh album of O.S.T.R.

Sports

- A heptathlon is a combined event of seven running, jumping and throwing disciplines for both men's and women's athletics.
- Rugby sevens is a variant of union and league that contains only seven players per side instead of the standard 15 (union) or 13 (league).
- In the standard rugby union bonus points system, a team is awarded a bonus point in the league standings if it loses a game by 7 or fewer points.
- In baseball:
 - For baseball scoring, seven represents the left fielder's position.
 - There are seven ways that a batter can reach base (safe hit, base on balls, fielder's error, fielder's choice, hit by pitch, catcher's interference, and dropped third strike).
 - The 7th Inning stretch was attributed to the 27th U.S. President, William Howard Taft.
- In basketball:
 - The standard ball used for full-court men's play is designated as "size 7".
 - In the rule sets used for US college men's play and US high schools for both sexes, a team begins shooting bonus free throws once its opponent has committed 7 personal fouls in a half.

Jersey numbers

- In association football, the right midfielder traditionally wears the number 7.
- In rugby league, the jersey number 7 is worn by the starting scrum-half/halfback in most competitions (but not in the Super League, which uses static squad numbering).
- In rugby union, the jersey number 7 is worn by the starting openside flanker. (Some teams use "left" and "right" flankers instead of "openside" and "blindsides", with 7 being worn by the starting right flanker.)

Number of players

- In cross country running, a team traditionally consists of seven athletes.
- In team handball, the number of players on each team including the goalkeeper.
- In netball, each team has seven players on the court.
- In Ultimate, each team has seven players on the field.
- In water polo, each team is allowed to have a maximum of seven players, one of them a goalkeeper, in the playing area of the pool at any given time.

Television

Networks and stations

- The circle 7 logo used by numerous ABC network O&O stations in the U.S. (In the late 1940s, ABC arranged for its five original, founding O&O TV stations to broadcast on channel 7.)
- Maximum number of VHF broadcast channels available in any TV market in the United States of America; they are channels 2, 4, 5, 7, 9, 11, and 13 in the Greater New York City and Los Angeles-Long Beach SMSAs.
- ProSieben (*sieben* being German for seven), a television network in Germany
- Seven Network, a television network in Australia.
- Trans7 (formerly TV7 before taken over by Trans Corporation), a television network in Indonesia.
- GMA 7 (DZBB-TV channel 7 In Metro Manila) a television network in the Philippines.

Programs

- 7 Days, a comedy gameshow based on news stories from New Zealand.
- The name of a television show 7th Heaven.
- The name of a The Adventures of Super Mario Bros. 3 cartoon episode, "7 Continents for 7 Koopas".
- Blake's 7 was a BBC science fiction series that ran from 1978 to 1981.
- Eureka Seven, a science fiction and romance anime.
- In Red Dwarf II episode "Parallel Universe", Holly forgets the number 7 in a countdown for the Holly Hop Drive. After Rimmer reminds him, he admits he has "a blind spot for sevens".
- Seven, an episodic character from the sitcom Married... with Children.
- In the Seinfeld episode "The Seven", Seven is the name George Costanza desires to give his first-born, having allegedly promised this to the widow of baseball great Mickey Mantle (whose uniform number was 7). George is enraged, however, when his fiancé's cousin and spouse copy the idea and give the name to their child.
- Seven Days, a science fiction show about the NSA using time travel.
- The name of one of the monsters in the cartoon television show Seven Little Monsters.

- In *Star Trek: Voyager*, Seven of Nine (also called Seven for short) is one of the crewmembers.
- The *Ultra Series* has two heroes with "Seven" in their name: Ultra Seven and Ultra Seven-21.
- *Ultra Seven*, a television series aired in 1967, and the superhero of the same name. He is the honorary seventh member of the Ultra Garrison.
- In *House of Anubis* (on Nickelodeon), the "chosen one" has to be born on 7/7 (July 7) at 7:00am.
- George Carlin in what is perhaps his best-known routine, "Seven Words You Can Never Say on Television".
- *Lucky 7*: Short-lived ABC TV series (premiered 2013) about seven people who win the lottery.
- The last episode of *American Horror Story: Coven* is named *The Seven Wonders*, after the seven great powers a witch should perform to become the leader or "Supreme" of the generation: Telekinesis, Concilium, Descensum, Divination, Transmutation, Vitalum Vitalis and Pyrokinesis.
- In the anime series *Yu-Gi-Oh! Duel Monsters*, there are seven magical ancient Egyptian artefacts, known as the Millennium Items (Puzzle, Eye, Ring, Key, Scale, Rod and Necklace), which play a significant role in the storyline of the show throughout its duration.
- The number 7 is the racing number of Herbie's girlfriend, Giselle, in the movie *Herbie Goes to Monte Carlo*.
- The number 7 plays a significant role in HBO's *Game of Thrones*. There are seven Kingdoms in the land of Westeros. There are seven Hells and Heavens, seven deities in the major religion, the holy text of said religion is referred to as "The Seven Pointed Star". Seven heroes embark North of the Wall to capture a wight in Season 7. A Song of Ice and Fire, the series the Television show is based on will contain seven books after Author George R.R. Martin is finished writing the series.

Places

- The traditional count of Basque provinces as expressed in the slogan *Zazpiak Bat*, translates as "the seven [are] one" and refers to the seven Basque traditional provinces.
- The figurative number of seas.
- The Seven Virgins mountain range in Sri Lanka, which was the scene of an air disaster on December 4, 1974, involving a DC-8 Series 55F passenger jetliner operated by the charter company Martinair, which left 191 dead.
- The Sevens (sometimes typeset as "7he Sevens"), a rugby union stadium in Dubai, UAE and home to the Dubai Sevens tournament.

Religion and mythology

Old Testament

- Seven Hebrew words of Bereishit 1:1 / Genesis 1:1 (28 letters).

The number seven in the seven days of Creation is typological and the number seven appears commonly elsewhere in the Bible. These include:

- Seven days of Creation (Genesis 1) e.g., God rested on and sanctified the seventh day (Sabbath).
- Anyone who dares to kill Cain "will suffer vengeance seven times over" (Genesis 4:15).
- Lamech in his "Song of the Sword" claims that "if Cain shall be avenged sevenfold", he himself shall be "seventy-sevenfold" (Genesis 4:24).
- Noah is commanded to bring seven pairs of every clean animal onto the ark (Genesis 7:2).
- Seven years of plenty and seven years of famine in Pharaoh's dream (Genesis 41).
- In regards to the sin sacrifice, the anointed priest was to sprinkle the bullock's blood seven times before the LORD (Leviticus 4:6).
- Seven days of the feast of Passover (Exodus 13:3–10).
- Seven-day week and the pattern concerning distribution and use of manna (Exodus 16).
- The Menorah (Hebrew: מנורה), is a seven-branched candelabrum lit by olive oil in the Tabernacle and the Temple in Jerusalem (Exodus 25).
- Seven-year cycle around the years of Jubilee (Leviticus 25).
- Jericho's walls fall on the seventh day after seven priests with seven trumpets march around the city seven times (Joshua 6:8).
- King David had seven older brothers (1 Samuel 16).
- The child sneezed seven times after Elisha raised him from the dead (2 Kings 4:35).
- Seven things that are detestable to the LORD (Proverbs 6:16–19).
- Seven Pillars of the House of Wisdom (Proverbs 9:1).
- The woman with seven sons in 2 Maccabees.



Seven Days of Creation - 1765 book

- Gad, whose name means good luck, is the seventh son of Jacob. Areli is the seventh son of Gad (Genesis 46:16). Chronicles lists David as the seventh son of Jesse (1 Chronicles 2:15). An unnamed eighth individual appeared among the seven in 1 Samuel 16, then David as the youngest is brought before Samuel.

New Testament

- Seven loaves multiplied into seven basketfuls of surplus (Matthew 15:32–37).
- Peter asked Jesus if he should forgive up to seven times; Jesus responded by saying to forgive them "seventy times seven times", alluding to the Curse of Cain and the Song of Lamech in Genesis 4.^[16]
- Seven demons were driven out of Mary Magdalene (Luke 8:2).
- The seven last sayings of Jesus on the cross.
- Seven men of honest report, full of the Holy Ghost and wisdom (Acts 6:3).
- In the Book of Revelation, seven is a central figure of quantities: Seven Spirits of God, Seven Churches (to which the book is addressed);
- Seven of the following appear in Revelation: golden lampstands (1:12), stars (1:16), torches of fire (4:5) Seven Seals (5:1), angels and their trumpets (8:2), last plagues (15:1), golden bowls (15:7), thunders (10:3), horns and eyes (5:6), diadems (12:3) and kings (17:10). See Category:Seven in the Book of Revelation.



Seven lampstands in *The Vision of John on Patmos* by Julius Schnorr von Carolsfeld, 1860.

Other sevens in Christian knowledge and practice include:

- The Seven Gifts of the Holy Spirit.
- The Seven Corporal Acts of Mercy and Seven Spiritual Acts of Mercy of Roman Catholic, Anglican, and other traditions.
- The Seven deadly sins: lust, gluttony, greed, sloth, wrath, envy, and pride.
- The Seven Joys of the Virgin Mary in Roman Catholic, Anglican, and other traditions.
- The Seven Sacraments in the Catholic Church (though some traditions assign a different number).
- The Seven Sorrows of the Virgin Mary in Roman Catholic, Anglican, and other traditions.
- There are seven suicides mentioned in the Bible (OT and NT).^[17]
- The seven terraces of Mount Purgatory (one per deadly sin).
- The Seven Virtues: chastity, temperance, charity, diligence, kindness, patience, and humility.
- In the genealogy in the Gospel of Luke, Jesus is 77th name in a direct line.
- The number of heads of the three beasts ($7 \times 10 \times 7 + 7 \times 10 \times 10 + 7 \times 10 = 1260$) of the Book of Revelation, and the seven seals.

Hinduism

- The Sanskrit word *sapta* refers to number seven.
- Indian Music has "Saptak Swaras", seven octaves (*sa re ga ma pa dha ni*) which are basics of music, using which hundreds of Ragas are composed.
- Celestial group of seven stars (7 Classical Planets) are named as "Sapta Rishi" based on the seven great saints.
- Seven Promises [Saptapadi], Seven Rounds in Hindu Wedding and Seven Reincarnation.
- According to Hinduism, there are seven worlds in the universe, seven seas in the world and seven Rishis (seven gurus) called sapta rishis.
- Seven hills at tirumala also known as Yedu Kondalavadu [in Telugu], ezhu malaiyan [in Tamil] means "Sevenhills God".
- The seven virgin goddesses (or Saptha Kannimar) are worshipped in temples in Tamil Nadu, India.
- There are 7 Chakras in the basic model used in various eastern traditions and philosophies.

Islam

- The number of ayat in surat al-Fatiha.
- The number of heavens.
- The number of hells.
- The number of circumambulations that are made around the Kaaba.
- The number of walks between Al-Safa and Al-Marwah pilgrims perform during the Hajj and the Umrah.
- The number of doors to hell is seven (for heaven the number of doors is eight).

- In Verse 12:46 (see Islamic view of Joseph) of the Quran, Joseph (Yusef) is asked to interpret the King's dream where seven fat cows were dreamt to have been devoured by seven skinny cows and seven green spikes, and others shrivelled.
- The number of the big sins or vices is seven which are from a Hadith of the prophet Mohamed: "Avoid the seven sins polytheism, witchcraft, the killing of the soul which Allah has forbidden except by right, consuming riba, consuming the wealth of the orphan, to escape from the battles and slandering chaste women".
- A naming ceremony is held for babies on their seventh day of life.

Judaism

- *Shiv`a* (another pronunciation of the Hebrew word for 7—(Hebrew: שבעה, "seven")), is the number of days of mourning. Hence, one *sits Shiva*. As in Shiva (Judaism).
- The weekly Torah portion is divided into seven *aliyahs*, and seven Jewish men (or boys over the age of 13 who are considered men; Bar Mitzvah) are called up for the reading of these aliyahs during *Shabbat* morning services.
- Seven blessings are recited under the *chuppah* during a Jewish wedding ceremony.
- A Jewish bride and groom are feted with seven days of festive meals after their wedding, known as *Sheva Berachot* ("Seven Blessings").
- The number of *Ushpizzin* (also known as the "Seven Shepherds") who visit the *sukkah* during the holiday of Sukkot: Abraham, Isaac, Jacob, Joseph, Moses, Aaron, and David.
- The number of nations God told the Israelites they would displace when they entered the land of Israel (Deut. 7:1): the Hittite, the Girgashite, the Amorite, the Canaanite, the Perizzite, the Hivite, and the Jebusite.
- In Breslov tradition, the seven orifices of the face (2 eyes, 2 nostrils, 2 ears, and the mouth) are called "The Seven Candles."
- The 7 Sephirot of primary conscious emotion that are attributes of the creator.

Chinese Taoism

- Number of Kan (010), Li Tie Guai, West, Pilgrim, Journey to the West.
- 7 Colors / 7th Element (Qi):
 1. Golden Star
 2. White Clouds
 3. Blue (Heaven) Sky
 4. B-lack (of Colors) Moon Empty Infinity Space / Earth (where grown Trees)
 5. Green Wood
 6. Red (Hell) Fire

Astrology

- The number of daughters of Atlas in the Pleiades (also called the "Seven Sisters").
- The number of saints appearing in a constellation called "Saptharishi Mandalam" in Indian astronomy.

Others

Deity, being, or character



The Seven Lucky Gods in Japanese mythology

- The Seven Lucky Gods refer to the seven gods of good fortune in Japanese mythology.
- The number of archangels according to some systems.
- In Buddhism, Buddha walked 7 steps at his birth.
- In Khasi mythology, the seven divine women who were left behind on earth and became the ancestresses of all humankind.
- The number of sleeping men in the Christian myth of the "Seven Sleepers".
- The number of sages in Hindu mythology; their wives are

the deities referred to as the Sapta Matrka or "Seven Mothers".

- In Iran,^[18] German, Spanish, and other cultures that speak Romance Languages, cats are said to have seven lives as opposed to English, where cats are said to have nine lives.
- In Irish mythology, the epic hero Cúchulainn is associated with the number 7. He has seven fingers on each hand, seven toes on each foot, and seven pupils in each eye. In the Irish epic Táin Bó Cúailnge, Cúchulainn is 7 years old when he receives his first weapons and defeats the armies of the Ulaidh and his son Connla is 7 years old when he is slain by Cúchulainn in "The Death of Aife's Only Son".

- In Galician folklore, a seventh son will be a werewolf. In other folklores, after six daughters, the seventh child is to be a son and a werewolf. In other European folklores, the seventh son of a seventh son will be a child with special powers of healing and clairvoyant seeing, and in other cultures that seventh son of a seventh son would be a vampire.
- In Guaraní mythology, the number of prominent legendary monsters.
- In the eponymous British folk tale, Thomas the Rhymer went to live in the faerie kingdom for seven years.
- Mahatma Gandhi's list of the destructive Seven Blunders of the World that cause violence: Wealth without work, pleasure without conscience, knowledge without character, commerce without morality, science without humanity, religion without sacrifice and politics without principle.
- The cosmogony of Urantia^[19] gives an explanation to the sacredness of the number 7 in some religions, including those based on a triple deity: 7 indeed is the number of all the possible combinations of three elements taken one by one, two by two, or by three. It therefore expresses all the associative possibilities of the three fundamental aspects of the absolute (Christian Trinity, for example, or Trimurti in Hinduism) which organizes the Creation. The seventh of these combinations being the one that combines the three aspects, 7 therefore also expresses spiritual achievement.
- In other traditions and teachings, seven is seen as the perfect number that holds creation and the universe together.^[20] From the 7 deadly sins to 7 chakras, 7 heavens and 7 planes of creation, this number holds great significance.

Place

- The number of main islands of mythological Atlantis.
- The number of gateways traversed by Inanna during her descent into the underworld.
- Cibola was one of the legendary Seven Cities of Gold the Spanish thought existed.
- In the Bahá'í faith, the text *The Seven Valleys*, by the Prophet-Founder Bahá'u'lláh, relates the journey of the soul through the seven "valleys" of Search, Love, Knowledge, Unity, Contentment, Wonderment, and finally True Poverty and Absolute Nothingness.

Scripture

- Circle Seven Koran, the holy scripture of the Moorish Science Temple of America.

Thing, concept, or symbol

- The Seven-Branched Sword in Japanese mythology.
- The Theosophical teachings of Alice A. Bailey divide the human race into seven psychological types called the Seven Rays, which she calls "the basis of New Age psychology".
- The minor symbol number of yang from the Taoist yin-yang.
- The number of palms in an Egyptian Sacred Cubit.
- The number of ranks in Mithraism.
- The number seven is of particular significance within Cherokee cosmology.
- Most likely to be chosen as a favorite number by people around the world.^{[21][22]}

Time

- In British folklore, every seven years the Queen of the Fairies pays a tithe to Hell (or possibly Hel) in the tale of Tam Lin.

Science

Astronomy

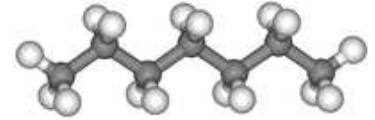
- The number of celestial objects in the solar system visible to the naked eye from Earth – the Sun, the Moon and the five classical naked eye planets: Mars, Mercury, Jupiter, Venus, and Saturn.
- Messier object M7, a magnitude 3.5 open cluster in the constellation Scorpius.
- The New General Catalogue object (<http://www.ngcic.org/>) NGC 7, a 14th magnitude spiral galaxy in the constellation Sculptor.
- The number of main stars in the asterism of the Big Dipper and the constellation of Orion.
- The Roman numeral VII stands for white dwarfs in the Yerkes spectral classification scheme.
- The Roman numeral VII (usually) stands for the seventh-discovered satellite of a planet or minor planet (e.g., Jupiter VII).

Biology

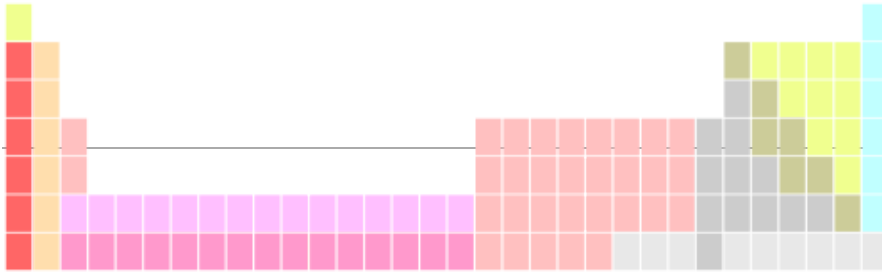
- Almost all mammals have seven cervical vertebrae.
- The number of spots on a seven-spot ladybird.
- There are seven types of virus according to the Baltimore classification.

Chemistry

- A neutral pH value between acidity and alkalinity.
- The atomic number of nitrogen.
- Heptane is an alkane with 7 carbon atoms in each molecule.



Heptane is an alkane with 7 carbon atoms per molecule



- The number of periods, or horizontal rows of elements, in the periodic table (as of 2016).
- The number of principal energy levels for electrons around the nucleus.
- The number of crystal systems: triclinic, monoclinic, orthorhombic, tetragonal, trigonal, hexagonal, and cubic.
- The number of crystal lattice systems: cubic (or isometric), hexagonal, tetragonal, rhombohedral, orthorhombic, monoclinic and triclinic.

Physics

- There are seven SI base units.^[23] These are a coherent set of units defined to measure seven basic physical properties: metre, kilogram, second, ampere, kelvin, mole, candela. The seven SI base units are used to define all other SI units, which are known as SI derived units.^[24]
- Isaac Newton identified 7 colors of the rainbow – red, orange, yellow, green, blue, indigo, and violet.



Isaac Newton's 7 colors of the rainbow

Psychology

- The Magical Number Seven, Plus or Minus Two.

Software

- 7 is the calling code of Russia. Only the North American Numbering Plan (+1) and Russia (+7) have a single-digit code.
- There are seven layers in the OSI model.
- Video game developer Bungie, famed for the Halo series of games, often references the number seven in their products.

Temporal, seasonal and holidays

- The seven days of the week
- The Kulin people of Australia living near the Dandenong Ranges traditionally have seven seasons. Some of the Native Americans of Montana also have seven seasons: chinook season, muddy spring, green summer, gold summer (or dry summer), "Indian" Summer, late fall, and cold winter.
- The Heptarchy, from the (Greek for *seven realm*), is the name applied by historians to the period (500–850 CE) in English history after the Anglo-Saxon conquest of England, derived from the seven kingdoms of Northumbria, Mercia, East Anglia, Essex, Kent, Sussex, and Wessex, which eventually merged to become the Kingdom of England during the early 10th century.
- September was the seventh month in the ancient Roman calendar, as its name indicates. After the reform that led to the current order, the seventh month is July.
- *Septidi* was the seventh day of the decade in the French Revolutionary Calendar.
- The 7th glyph of the Maya Calendar is Blue Hand, it represents the days in creation and is associated with creative perfection. This is the glyph of the last day of their calendar that ends on December 21, 2012.

See also

- Septenary (numeral system)
- Septenary (Theosophy)
- Seven climes

- [Year Seven \(School\)](#)
- [Se7en \(disambiguation\)](#)
- [Sevens \(disambiguation\)](#)
- [Luck](#)
- [One-seventh area triangle](#)
- [Diatonic scale](#)

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External links

- The Significance of The Number Seven by Hillel ben David (Greg Killian) (<http://www.betemunah.org/seven.html>)
 - The Number Seven in the Holy Bible by Ed F. Vallowe (<http://www.angelfire.com/az/rainbowbridge/seven.html>)
 - The Bible Wheel: The Number Seven and Scripture (<http://www.biblewheel.com/topics/seven.asp>)
 - The Number 7 (<https://web.archive.org/web/20140201161640/http://numdic.com/7>)
 - The Positive Integer 7 (<http://www.positiveintegers.org/7>)
 - Prime curiosities: 7 (<http://primes.utm.edu/curios/page.php/7.html>)
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