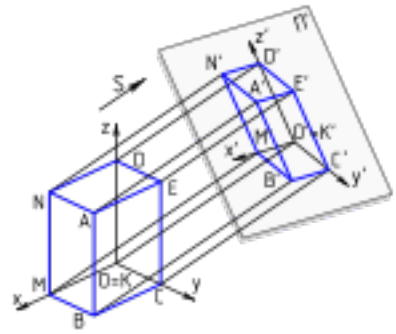
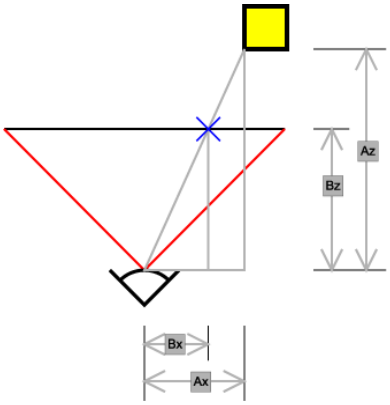
3D projection





method of mapping three-dimensional points to a two-dimensional plane

ALGOL

Bruno Latour

Certified first responder

They have more skill than someone who is trained in basic first aid but they are not a substitute for advanced medical care rendered by emergency medical technicians (EMTs), emergency physicians, nurses, or paramedics (though many first responders are EMTs)

Compass (drafting)

a technical drawing instrument that can be used for inscribing circles or arcs.

Daedalus
credited with inventing carpentry "and with it the saw, axe, plumb-line, drill, glue, and isinglass"
Daedalos, meaning "clever worker"
It is said he first conceived masts and sails for ships for the navy of Minos.

Dart (programming language)

Datalog
truly declarative logic programming language that syntactically is a subset of Prolog
Datalog queries on finite sets are guaranteed to terminate
statements of a Datalog program can be stated in any order

Demonic possession
the spirit possession of an individual by a malevolent preternatural being.

Diorama
Miniature dioramas may be used to represent scenes from historic events.
three-dimensional full-size or miniature model, sometimes enclosed in a glass showcase for a museum

Elm (programming language)
Elm is a functional programming language for declaratively creating web browser based graphical user interfaces. Elm uses the Functional Reactive Programming style and purely functional graphical layout to build user interface without any destructive updates.

Erlang (programming language)

Find the right methods—Design by Prototyping.
general-purpose concurrent, garbage-collected programming language and runtime system
Make mistakes on a small scale, not in a production project.
It is not good enough to have ideas, you must also be able to implement them and know [how|that] they work.

Fiducial marker
an object placed in the field of view of an imaging system which appears in the image produced, for use as a point of reference or a measure.

Fortran

general-purpose, imperative programming language that is especially suited to numeric computation and scientific computing.
the 1950s

Fortress (programming language)
The name "Fortress" is intended to connote a secure Fortran, i.e., "a language for high-performance computation that provides abstraction and type safety on par with modern programming language principles”

Functional reactive programming

a programming paradigm for reactive programming using the building blocks of functional programming

Gerald Jay Sussman

Sussman's contributions to artificial intelligence include problem solving by debugging almost-right plans, propagation of constraints applied to electrical circuit analysis and synthesis, dependency-based explanation and dependency-based backtracking, and various language structures for expressing problem-solving strategies.

Ghost

the soul or spirit of a dead person or animal that can appear, in visible form or other manifestation, to the living

Green threads

threads that are scheduled by a virtual machine (VM) instead of natively by the underlying operating system

Hiroshi Ishii (computer scientist)

Ishii pioneered the Tangible User Interface in the field of Human-computer interaction with the paper "Tangible Bits: Towards Seamless Interfaces between People, Bits and Atoms"

History of Maxwell's equations

Horn clause

Hot swapping
replacing computer system components without shutting down the system.

HyperCard

For another example, word 3 of "life is cruel" (cruel) can be appended after the first word of "Hello world", yielding "Hello cruel world". Referring to objects and the items on cards or backgrounds was easy. HyperCard also included prototype or template cards known as "backgrounds"; when new cards are created they can refer to one of these background cards, which causes all of the objects on the background to be copied onto the new card. This way a stack of cards with a common layout and functionality can be created. The layout engine was similar in concept to a "form" as used in most rapid application development (RAD) environments (such as Borland Delphi, Visual Basic and Visual Studio).
combines database capabilities with a graphical, flexible, user-modifiable interface

HyperTalk
HyperTalk scripts are fairly similar to written English, and use a logic structure similar to the Pascal programming language.

Illumination
an observable property and effect of light

Incremental computing
a software feature which, whenever a piece of data changes, attempts to save time by only recomputing those outputs which "depend on" the changed data.

James Clerk Maxwell

John McCarthy (computer scientist)

coined the term "artificial intelligence" (AI), developed the Lisp programming language family, significantly influenced the design of the ALGOL programming language, popularized timesharing, and was very influential in the early development of AI.
His 2001 short story "The Robot and the Baby"[18] farcically explored the question of whether robots should have (or simulate having) emotions, and anticipated aspects of Internet culture and social networking that became more prominent during the ensuing decade.
those who don't speak math are doomed to speak nonsense

Ken Perlin

Language

a person emitting a speech scroll from his mouth, symbolizing speech

Lasso

a loop of rope designed as a restraint to be thrown around a target and tightened when pulled. It is a well-known tool of the American cowboy.

Levitation

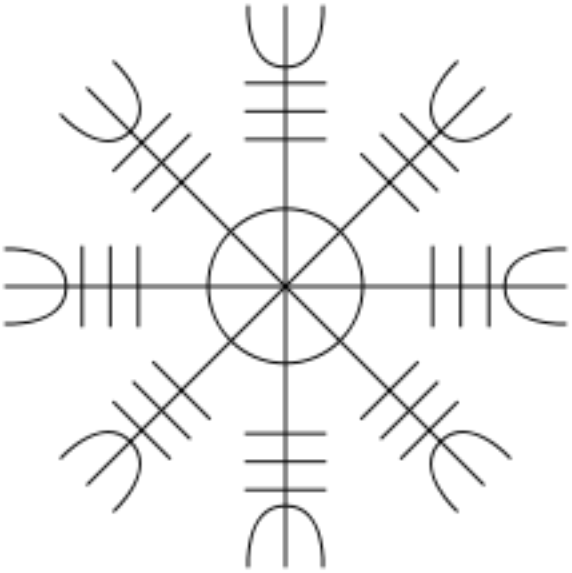
the process by which an object is suspended by a physical force against gravity, in a stable position without solid physical contact

Magic (illusion)

a performing art that entertains audiences by staging tricks or creating illusions of seemingly impossible

Some modern illusionists believe that it is unethical to give a performance that claims to be anything other than a clever and skillful deception.

Magic (paranormal)



Modern theories of magic may see it as the result of a universal sympathy where some act can produce a result somewhere else, or as a collaboration with spirits who cause the effect.
an attempt to understand, experience and influence the world using rituals, symbols, actions, gestures and language
The principle of similarity, also known as the "association of ideas", which falls under the category of sympathetic magic, is the thought that if a certain result follows a certain action, then that action must be responsible for the result.
Magic often utilizes symbols that are thought to be intrinsically efficacious.
Another primary type of magical thinking includes the principle of contagion. This principle suggests that once two objects come into contact with each other, they will continue to affect each other even after the contact between them has been broken.
Magical rituals are the precisely defined actions (including speech) used to work magic.

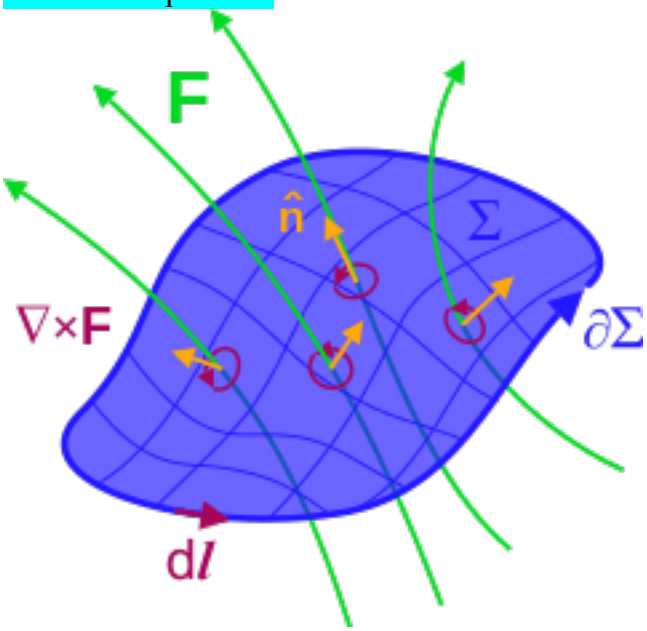
Magic (programming)

magic is an informal term for abstraction - it is used to describe code that handles complex tasks while hiding that complexity to present a simple interface
the true behavior of the code is not immediately apparent

Magical thinking

It is a type of causal reasoning or causal fallacy that looks for meaningful relationships of grouped phenomena between acts and events.

Maxwell's equations



oundation of classical electrodynamics, classical optics, and electric circuits

Michael Faraday

James Clerk Maxwell took the work of Faraday and others, and summarized it in a set of equations that is accepted as the basis of all modern theories of electromagnetic phenomena

Morphic (software)
graphical objects called Morphs for simplified GUI-building which allow for a great degree of flexibility and dynamism.

No gods, no masters
The phrase is derived from the French slogan "Ni dieu ni maître!" (literally 'Neither God nor master') coined by the socialist Auguste Blanqui in 1880, when he published a journal by that name.

OMeta
OMeta's slow running speed and unclear error reports remove much of its functionality as a full programming language

Oliver Heaviside

reformulated Maxwell's field equations in terms of electric and magnetic forces and energy flux

On Photography

Sontag argues that the proliferation of photographic images had begun to establish within people a "chronic voyeuristic relation"[1] to the world around them. Among the consequences of photography is that the meaning of all events is leveled and made equal.
the medium fostered an attitude of anti-intervention. Sontag says that the individual who seeks to record cannot intervene, and that the person who intervenes cannot then faithfully record, for the two aims contradict each other. In this context, she discusses in some depth, the relationship of photography to politics.

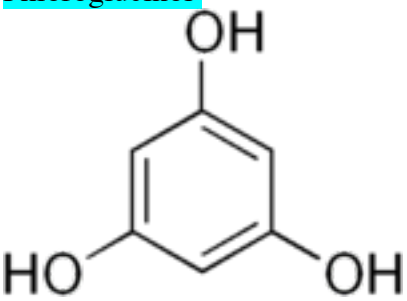
OpenGL

for rendering 2D and 3D vector graphics. The API is typically used to interact with a Graphics processing unit (GPU), to achieve hardware-accelerated rendering.

Parsing expression grammar

analytic formal grammar, i.e. it describes a formal language in terms of a set of rules for recognizing strings in the language

Phloroglucinol



Phloroglucinol is an organic compound that is used in the synthesis of pharmaceuticals and explosives

Photogrammetry

science, technology and art of obtaining reliable information from noncontact imaging and other sensor systems about the Earth and its environment, and other physical objects and processes through recording, measuring, analysing and representation (ISPRS).

Program slicing
A dynamic slice contains all statements that actually affect the value of a variable at a program point for a particular execution of the program the computation of the set of programs statements, the program slice, that may affect the values at some point of interest

Projection mapping
spatial augmented reality

Prolog
Prolog programs describe relations, defined by means of clauses. Pure Prolog is restricted to Horn clauses. There are two types of clauses: facts and rules.
An example of a fact is: cat(tom).
general purpose logic programming language associated with artificial intelligence and computational linguistics

Ramesh Raskar

Reactable

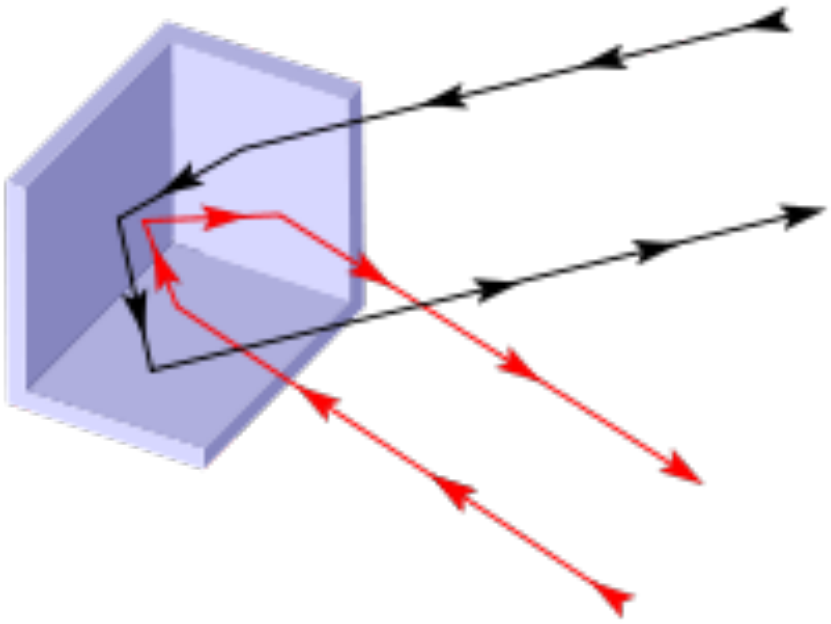
Underneath the table is a video camera, aimed at the underside of the table and inputing video to a personal computer. There is also a video projector under the table, also connected to the computer, projecting video onto the underside of the table top that can be seen from the upper side as well.
The Reactable is a round translucent table, used in a darkened room, and appears as a backlit display. By placing blocks called tangibles on the table, and interfacing with the visual display via the tangibles or fingertips, a virtual modular synthesizer is operated, creating music or sound effects.
an electronic musical instrument with a tabletop Tangible User Interface that has been developed within the Music Technology Group at the Universitat Pompeu Fabra in Barcelona, Spain

Referential transparency (computer science)

An expression is said to be referentially transparent if it can be replaced with its value without changing the behavior of a program (in other words, yielding a program that has the same effects and output on the same input). The opposite term is referential opaqueness.

Responder

Retroreflector



The angle of incidence at which the device or surface reflects light in this way is greater than zero, unlike a planar mirror, which does this only if the mirror is exactly perpendicular to the wave front, having a zero angle of incidence.

Rokuharamitsu-ji

Kūya chanting the nembutsu, an Important Cultural Property

SLD resolution

Selective Linear Definite clause resolution

Shader lamps

Shader lamps is a computer graphic technique used to change the appearance of physical objects

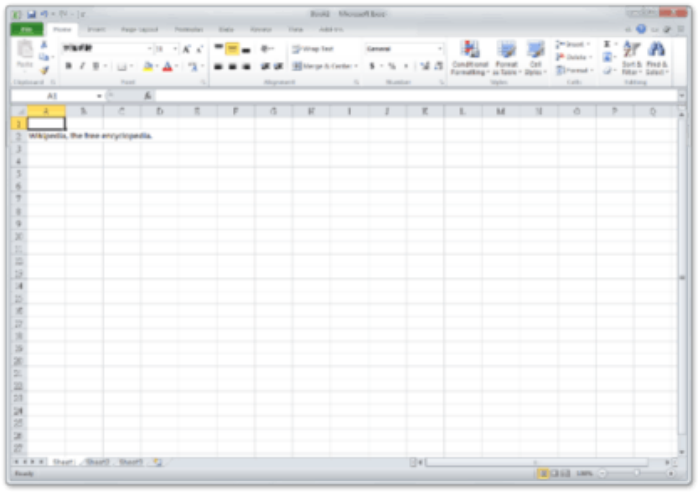
Speech scroll

an illustrative device denoting speech, song, or, in rarer cases, other types of sound.

Spirit

a non-corporeal substance contrasted with the material body. The word spirit is often used metaphysically to refer to the consciousness or personality

Spreadsheet



traditionally, a "spread" across facing pages of a bound ledger (book for keeping accounting records) or on oversized sheets of paper (termed "analysis paper") ruled into rows and columns in that format and approximately twice as wide as ordinary paper.
Each cell of the array is a model–view–controller element that can contain either numeric or text data, or the results of formulas that automatically calculate and display a value based on the contents of other cells.
This makes the spreadsheet useful for "what-if" analysis since many cases can be rapidly investigated without tedious manual recalculation.

Squeak

Stapler

mechanical device that joins sheets of paper or similar material by driving a thin metal staple through the sheets and folding the ends. Typical staplers are a third-class lever.

Static program analysis

finding all possible run-time errors in an arbitrary program (or more generally any kind of violation of a specification on the final result of a program) is undecidable

analysis of computer software that is performed without actually executing programs

Strawberry

Propagation is by runners, which can be pegged down to encourage them to take root,[35] or cut off and placed in a new location. Established plants should be replaced every three years, or sooner if there are signs of disease.

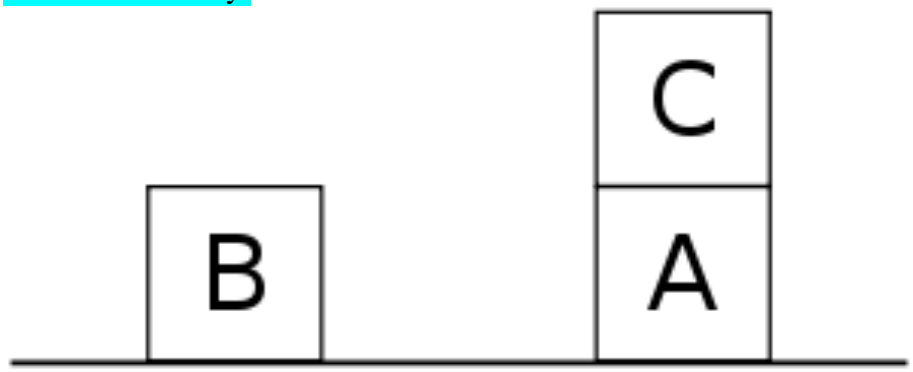
When propagating strawberries, one should avoid using the same soil or containers that were previously used for strawberry cultivation.

Susan Sontag

"'Shall I tell you about getting older?', she says, and she is laughing. 'When you get older, 45 plus, men stop fancying you. Or put it another way, the men I fancy don't fancy me. I want a young man. I love beauty. So what's new?' She says she has been in love seven times in her life. 'No, hang on,' she says. 'Actually, it's nine. Five women, four men.'"

she outlined her theory of taking pictures as you travel: The method especially appeals to people handicapped by a ruthless work ethic – Germans, Japanese and Americans. Using a camera appeases the anxiety which the work driven feel about not working when they are on vacation and supposed to be having fun. They have something to do that is like a friendly imitation of work: they can take pictures. (p. 10)

Sussman Anomaly



weakness of noninterleaved planning algorithms

We Have Never Been Modern

to conceive of a "Parliament of Things" wherein natural phenomena, social phenomena and the discourse about them are not seen as separate objects to be studied by specialists, but as hybrids made and scrutinized by the public interaction of people, things and concepts.
the dualistic distinction modernity makes between nature and society.
Pre-modern peoples, argues Latour, made no such division