Code-breaking algorithms have also existed for centuries. Some text editors such as Emacs allow GDB to be invoked through them, to provide a visual environment. For example, COBOL is still strong in corporate data centers often on large mainframe computers, Fortran in engineering applications, scripting languages in Web development, and C in embedded software. However, because an assembly language is little more than a different notation for a machine language, two machines with different instruction sets also have different assembly languages. The following properties are among the most important: In computer programming, readability refers to the ease with which a human reader can comprehend the purpose, control flow, and operation of source code. Their jobs usually involve: Although programming has been presented in the media as a somewhat mathematical subject, some research shows that good programmers have strong skills in natural human languages, and that learning to code is similar to learning a foreign language. Popular modeling techniques include Object-Oriented Analysis and Design (OOAD) and Model-Driven Architecture (MDA). They are the building blocks for all software, from the simplest applications to the most sophisticated ones. The first computer program is generally dated to 1843, when mathematician Ada Lovelace published an algorithm to calculate a sequence of Bernoulli numbers, intended to be carried out by Charles Babbage's Analytical Engine. It is very difficult to determine what are the most popular modern programming languages. Also, specific user environment and usage history can make it difficult to reproduce the problem. This can be a non-trivial task, for example as with parallel processes or some unusual software bugs. Debugging is a very important task in the software development process since having defects in a program can have significant consequences for its users. They are the building blocks for all software, from the simplest applications to the most sophisticated ones. There exist a lot of different approaches for each of those tasks. Also, specific user environment and usage history can make it difficult to reproduce the problem. Machine code was the language of early programs, written in the instruction set of the particular machine, often in binary notation. In 1801, the Jacquard loom could produce entirely different weaves by changing the "program" – a series of pasteboard cards with holes punched in them. In the 1880s, Herman Hollerith invented the concept of storing data in machine-readable form. Techniques like Code refactoring can enhance readability. Computer programming or coding is the composition of sequences of instructions, called programs, that computers can follow to perform tasks. Many programmers use forms of Agile software development where the various stages of formal software development are more integrated together into short cycles that take a few weeks rather than years. Some text editors such as Emacs allow GDB to be invoked through them, to provide a visual environment. They are the building blocks for all software, from the simplest applications to the most sophisticated ones. Following a consistent programming style often helps readability.