A programmer, computer programmer, developer, coder, or software engineer is a person who writes [computer software](http://en.wikipedia.org/wiki/Computer_software). The term *computer programmer* can refer to a specialist in one area of [computer programming](http://en.wikipedia.org/wiki/Computer_programming) or to a generalist who writes code for many kinds of software.

A programmer's primary computer language ([C](http://en.wikipedia.org/wiki/C_(programming_language)), [C++](http://en.wikipedia.org/wiki/C%2B%2B), [C#](http://en.wikipedia.org/wiki/C_Sharp_(programming_language)), [Java](http://en.wikipedia.org/wiki/Java_(programming_language)), [Lisp](http://en.wikipedia.org/wiki/Lisp_(programming_language)), [Python](http://en.wikipedia.org/wiki/Python_programming_language) etc.) is often prefixed to the above titles, and those who work in a [Web](http://en.wikipedia.org/wiki/World_Wide_Web) environment often prefix their titles with *Web*. The term *programmer* can be used to refer to a [software developer](http://en.wikipedia.org/wiki/Software_developer), [Web developer](http://en.wikipedia.org/wiki/Web_developer), Mobile Applications Developer, Embedded Firmware Developer, [software engineer](http://en.wikipedia.org/wiki/Software_engineer), [computer scientist](http://en.wikipedia.org/wiki/Computer_scientist), or [software analyst](http://en.wikipedia.org/wiki/Software_analyst).

British countess and mathematician [Ada Lovelace](http://en.wikipedia.org/wiki/Ada_Lovelace) is considered the first computer programmer, as she was the first to write and publish an [algorithm](http://en.wikipedia.org/wiki/Algorithm) intended for implementation on [Charles Babbage](http://en.wikipedia.org/wiki/Charles_Babbage)'s [analytical engine](http://en.wikipedia.org/wiki/Analytical_engine), in October 1842, intended for the calculation of[Bernoulli numbers](http://en.wikipedia.org/wiki/Bernoulli_number).[[8]](http://en.wikipedia.org/wiki/Programmer#cite_note-8)

The first person to run a program on a functioning modern electronically based computer was [computer scientist](http://en.wikipedia.org/wiki/Computer_scientist) [Konrad Zuse](http://en.wikipedia.org/wiki/Konrad_Zuse" \o "Konrad Zuse), in 1941.

International Programmers' Day is celebrated annually on 7 January.[[11]](http://en.wikipedia.org/wiki/Programmer#cite_note-11) In 2009, the [government of Russia](http://en.wikipedia.org/wiki/Government_of_Russia) decreed a professional annual holiday known as [Programmers' Day](http://en.wikipedia.org/wiki/Programmers%27_Day) to be celebrated on 13 September (12 September in leap years). It had also been an unofficial international holiday before that.



Programming editors, also known as source code editors, are text editors that are specifically designed for programmers or developers for writing the source code of an application or a program. Most of these editors include features useful for programmers, which may include colour [syntax highlighting](http://en.wikipedia.org/wiki/Syntax_highlighting), auto indentation, [auto-complete](http://en.wikipedia.org/wiki/Auto-complete), bracket matching,[syntax check](http://en.wikipedia.org/wiki/Syntax_checker), and allows [plug-ins](http://en.wikipedia.org/wiki/Plug-in_(computing)). These features aid the users during coding, [debugging](http://en.wikipedia.org/wiki/Debugging) and testing.

GIT!