Many factors, having little or nothing to do with the ability of the computer to efficiently compile and execute the code, contribute to readability..  
Sometimes software development is known as software engineering, especially when it employs formal methods or follows an engineering design process.  
Many applications use a mix of several languages in their construction and use.  
Some text editors such as Emacs allow GDB to be invoked through them, to provide a visual environment.  
Programmers typically use high-level programming languages that are more easily intelligible to humans than machine code, which is directly executed by the central processing unit.  
 These compiled languages allow the programmer to write programs in terms that are syntactically richer, and more capable of abstracting the code, making it easy to target varying machine instruction sets via compilation declarations and heuristics.  
 A similar technique used for database design is Entity-Relationship Modeling (ER Modeling).  
 The first step in most formal software development processes is requirements analysis, followed by testing to determine value modeling, implementation, and failure elimination (debugging).  
It involves designing and implementing algorithms, step-by-step specifications of procedures, by writing code in one or more programming languages.  
It affects the aspects of quality above, including portability, usability and most importantly maintainability.  
 Debugging is often done with IDEs. Standalone debuggers like GDB are also used, and these often provide less of a visual environment, usually using a command line.  
While these are sometimes considered programming, often the term software development is used for this larger overall process – with the terms programming, implementation, and coding reserved for the writing and editing of code per se.  
 Programmable devices have existed for centuries.  
They are the building blocks for all software, from the simplest applications to the most sophisticated ones.  
Some languages are more prone to some kinds of faults because their specification does not require compilers to perform as much checking as other languages.