1. MVC- Stands for "Model-View-Controller." MVC is an [application](https://techterms.com/definition/application) design model comprised of three interconnected parts. They include the model ([data](https://techterms.com/definition/data)), the view ([user interface](https://techterms.com/definition/user_interface)), and the controller ([processes](https://techterms.com/definition/process) that handle input). The MVC model or "pattern" is commonly used for developing modern user interfaces. It is provides the fundamental pieces for designing a [programs](https://techterms.com/definition/program) for [desktop](https://techterms.com/definition/desktop) or [mobile](https://techterms.com/definition/mobile), as well as [web applications](https://techterms.com/definition/web_application). It works well with [object-oriented programming](https://techterms.com/definition/oop), since the different models, views, and controllers can be treated as objects and reused within an application.

Visual Basic is a programming language and development environment created by Microsoft. It is an extension of the [BASIC](https://techterms.com/definition/basic) programming language that combines BASIC functions and commands with visual controls. Visual Basic provides a graphical user interface [GUI](https://techterms.com/definition/gui) that allows the developer to drag and drop objects into the program as well as manually write program code. Visual Basic, also referred to as "VB," is designed to make software development easy and efficient, while still being powerful enough to create advanced programs. For example, the Visual Basic language is designed to be "human readable," which means the [source code](https://techterms.com/definition/sourcecode) can be understood without requiring lots of comments. The Visual Basic program also includes features like "IntelliSense" and "Code Snippets," which automatically generate code for visual objects added by the programmer. Another feature, called "AutoCorrect," can [debug](https://techterms.com/definition/debug) tBootstrap, or bootstrapping, is a verb that comes from the saying, "to pull oneself up by his bootstraps." The idiom implies a person is self sufficient, not requiring help from others. Similarly, in the computing world, bootstrapping describes a [process](https://techterms.com/definition/process) that automatically loads and executes commands.

The most fundamental form of bootstrapping is the startup process that takes place when you start up a computer. In fact, the term "[boot](https://techterms.com/definition/boot)," as in booting up a computer, comes from the word bootstrap. When you turn on or restart a computer, it automatically loads a sequence of commands that initializes the system, checks for [hardware](https://techterms.com/definition/hardware), and loads the [operating system](https://techterms.com/definition/operating_system). This process does not require any user [input](https://techterms.com/definition/input) and is therefore considered a bootstrap process.

While bootstrapping is often associated with the system [boot sequence](https://techterms.com/definition/bootsequence), it can be used by individual [applications](https://techterms.com/definition/application) as well. For example, a program may automatically run a series of commands when opened. These commands may process user settings, check for updates, and load dynamic libraries, such as [DLL](https://techterms.com/definition/dll) files. They are considered bootstrap processes because they run automatically as the program is starting up.

1. he code while the program is running. Programs created with Visual Basic can be designed to run on [Windows](https://techterms.com/definition/windows), on the [Web](https://techterms.com/definition/www), within Office applications, or on mobile devices. Visual Studio, the most comprehensive VB development environment, or [IDE](https://techterms.com/definition/ide), can be used to create programs for all these mediums. Visual Studio .NET provides development tools to create programs based on the .NET framework, such as [ASP.NET](https://techterms.com/definition/aspnet) applications, which are often deployed on the Web. Finally, Visual Basic is available as a streamlined application that is used primarily by beginning developers and for educational purposes.
2. ***SQL*** is an abbreviation for ***s***tructured ***q***uery ***l***anguage, and pronounced either see-kwell or as separate letters. SQL is a standardized [query language](https://www.webopedia.com/TERM/Q/query_language.html) for requesting information from a [database](https://www.webopedia.com/TERM/D/database.html). The original version called SEQUEL (***s***tructured ***E***nglish ***que***ry ***l***anguage) was designed by an [IBM](https://www.webopedia.com/TERM/I/IBM.html) research center in 1974 and 1975. SQL was first introduced as a commercial [database system](https://www.webopedia.com/TERM/D/database_management_system_DBMS.html) in 1979 by Oracle Corporation. Historically, SQL has been the favorite query language for database management systems running on [minicomputers](https://www.webopedia.com/TERM/M/minicomputer.html) and [mainframes](https://www.webopedia.com/TERM/M/mainframe.html). Increasingly, however, SQL is being [supported](https://www.webopedia.com/TERM/S/support.html) by PC database systems because it supports [distributed databases](https://www.webopedia.com/TERM/D/distributed_database.html) (databases that are spread out over several [computer systems](https://www.webopedia.com/TERM/C/computer_system.html)). This enables several [users](https://www.webopedia.com/TERM/U/user.html) on a [local-area network](https://www.webopedia.com/TERM/L/local_area_network_LAN.html) to [access](https://www.webopedia.com/TERM/A/access.html) the same database simultaneously.
3. The .NET framework is a software development framework from Microsoft. It provides a controlled programming environment where software can be developed, installed and executed on Windows-based operating systems.
4. C# is a hybrid of [C](https://www.webopedia.com/TERM/C/C.html) and [C++](https://www.webopedia.com/TERM/C/C_plus_plus.html), it is a [Microsoft](https://www.webopedia.com/TERM/M/Microsoft.html) [programming language](https://www.webopedia.com/TERM/P/programming_language.html)developed to compete with [Sun's](https://www.webopedia.com/TERM/S/Sun_Microsystems.html) [Java](https://www.webopedia.com/TERM/J/Java.html) language. C# is an [object-oriented](https://www.webopedia.com/TERM/O/object_oriented.html) programming language used with [XML](https://www.webopedia.com/TERM/X/XML.html)-based [Web services](https://www.webopedia.com/TERM/W/Web_Services.html) on the [.NET](https://www.webopedia.com/TERM/D/dot_NET.html) platform and designed for improving productivity in the development of Web applications. C# boasts type-safety, garbage collection, simplified type declarations, versioning and scalability support, and other features that make developing solutions faster and easier, especially for COM+ and Web services. Microsoft critics have pointed to the similarities between C# and Java.
5. ASP.NET is a set of Web development tools offered by Microsoft. Programs like Visual Studio .NET and Visual Web Developer allow Web developers to create dynamic websites using a visual interface. Of course, programmers can write their own code and [scripts](https://techterms.com/definition/script) and incorporate it into ASP.NET websites as well. Though it often seen as a successor to Microsoft's [ASP](https://techterms.com/definition/asp) programming technology, ASP.NET also supports Visual Basic.NET, JScript .NET and open-source languages like Python and Perl. ASP.NET is built on the .NET framework, which provides an application program interface ([API](https://techterms.com/definition/api)) for software programmers. The .NET development tools can be used to create applications for both the Windows operating system and the Web. Programs like Visual Studio .NET provide a visual interface for developers to create their applications, which makes .NET a reasonable choice for designing Web-based interfaces as well. In order for an ASP.NET website to function correctly, it must be published to a Web server that supports ASP.NET applications. Microsoft's Internet Information Services (IIS) Web server is by far the most common platform for ASP.NET websites. While there are some open-source options available for Linux-based systems, these alternatives often provide less than full support for ASP.NET applications.
6. GitHub is a web-based version-control and collaboration platform for software developers. Microsoft, the biggest single contributor to GitHub, initiated an acquisition of GitHub for $7.5 billion in June, 2018. GitHub, which is delivered through a software-as-a-service ([SaaS](https://searchcloudcomputing.techtarget.com/definition/Software-as-a-Service)) business model, was started in 2008 and was founded on Git, an open source code management system created by [Linus Torvalds](https://whatis.techtarget.com/definition/Linus-Torvalds) to make software builds faster.
7. **Microsoft Azure** (formerly **Windows Azure** [/ˈæʒər/](https://en.wikipedia.org/wiki/Help:IPA/English)) is a [cloud computing](https://en.wikipedia.org/wiki/Cloud_computing) service created by [Microsoft](https://en.wikipedia.org/wiki/Microsoft) for building, testing, deploying, and managing applications and services through a global network of Microsoft-managed [data centers](https://en.wikipedia.org/wiki/Data_center). It provides [software as a service (SaaS)](https://en.wikipedia.org/wiki/Software_as_a_service), [platform as a service (PaaS)](https://en.wikipedia.org/wiki/Platform_as_a_service) and [infrastructure as a service (IaaS)](https://en.wikipedia.org/wiki/Infrastructure_as_a_service) and supports many different [programming languages](https://en.wikipedia.org/wiki/Programming_language), tools and frameworks, including both Microsoft-specific and third-party software and systems.
8. **React** (also known as **React.js** or **ReactJS**) is a [JavaScript library](https://en.wikipedia.org/wiki/JavaScript_library)[[2]](https://en.wikipedia.org/wiki/React_(JavaScript_library)#cite_note-react-2) for building [user interfaces](https://en.wikipedia.org/wiki/User_interfaces). It is maintained by [Facebook](https://en.wikipedia.org/wiki/Facebook" \o "Facebook)and a community of individual developers and companies.React can be used as a base in the development of [single-page](https://en.wikipedia.org/wiki/Single-page_application) or mobile applications. Complex React applications usually require the use of additional libraries for [state management](https://en.wikipedia.org/wiki/State_management), [routing](https://en.wikipedia.org/wiki/Web_framework#URL_mapping), and interaction with an [API](https://en.wikipedia.org/wiki/API).
9. Bootstrap, or bootstrapping, is a verb that comes from the saying, "to pull oneself up by his bootstraps." The idiom implies a person is self sufficient, not requiring help from others. Similarly, in the computing world, bootstrapping describes a [process](https://techterms.com/definition/process) that automatically loads and executes commands. The most fundamental form of bootstrapping is the startup process that takes place when you start up a computer. In fact, the term "[boot](https://techterms.com/definition/boot)," as in booting up a computer, comes from the word bootstrap. When you turn on or restart a computer, it automatically loads a sequence of commands that initializes the system, checks for [hardware](https://techterms.com/definition/hardware), and loads the [operating system](https://techterms.com/definition/operating_system). This process does not require any user [input](https://techterms.com/definition/input) and is therefore considered a bootstrap process.While bootstrapping is often associated with the system [boot sequence](https://techterms.com/definition/bootsequence), it can be used by individual [applications](https://techterms.com/definition/application) as well. For example, a program may automatically run a series of commands when opened. These commands may process user settings, check for updates, and load dynamic libraries, such as [DLL](https://techterms.com/definition/dll) files. They are considered bootstrap processes because they run automatically as the program is starting up.