

Coding- is writing a set of instructions that can be used to perform a task in a programming language. These set of instructions makes it possible to create or develop computer programs, Mobile Apps and websites.

Programming software- are software tools, environments or application that makes it easy to use programming language to develop software.

Programming Languages-Yes that is true computer programs (instructions or commands) are built or developed using programming languages.

Examples of programming languages are Visual Basic, python, HTML, CSS, JavaScript, JAVA, Ruby, C++, etc.

See Table Below-Programming Languages and the application software they are used to develop

PROGRAMMING LANGUAGE	USES	YEAR OF INVENTION	INVENTOR
HTML	CREATE WEBSITE CONTENT	1991	TIM BERNER LEE
CSS	DESIGN WEBSITE	1994	Håkon Wium Lie
JAVASCRIPT	INTERACTIVE WEB	1995	Brendan Eich NETSCAPE
PYTHON	SCIENTIFIC & NUMERIC SOFTWARE	1991	GUIDO VAN ROSSUM

<b>SQL</b>	DATABASE	1974	Donald D. Chamberlin & Raymond Boyce
<b>PHP</b>	DYNAMIC WEB PAGES	1995	RASMUS LERDORT
<b>RUBY</b>	WEB DEVELOPMENT	1995	YUKIHIRO MATSUMOTO
<b>C</b>	for operating systems	1972	Dennis Ritchie
<b>C++</b>	CRITICAL APPLICATIONS	1979	Bjarne Stroustrup
<b>C sharp (C#)</b>	desktop software on windows platform	2000	Microsoft
<b>Visual Basic</b>	graphical user interface	1991	Microsoft
<b>Java</b>	web, desktop apps, used to create android apps	1995	Oracle corporation

<b>Objective –C</b>	create software for iphones, ipad, MAC OS X	1983	Apple
<b>Perl</b>	text processing  also web coding language	1987	Larry wall

**An application software/ program is a program designed to perform a specific function.** An application can be used on a mobile device like smartphones, ipad, iphone etc or on a computer system.

**A program is a collection of a set of instructions together with its Algorithm.**

Children all around the world starting from age 3yrs have been programming or coding for years. In fact at the Computer Science Education week (4<sup>th</sup> December 2017), Google Doodle team celebrated fifty years since kids programming were first introduced to the world where a little green turtle was programmed to move around and draw lines on a black screen.

Today children all over the world including Nigeria have developed applications that have been of great use in the world. Lim Ding Wen from Singapore started at age 3, developed a painting program for his younger ones when he was 9yrs. Now he writes applications for Apple's popular iPhone. He has a record of over 20 completed programming projects.

In Nigeria, Tomisin Ogunnubi at 12yres developed **my locator** application (to locate lost kids), Oluwadamilola Olutola of 9 years developed a **text-to-speech app** for quiz, and lots more. This term you are about to join the list.

## EXAMPLES OF PROGRAMMING SOFTWARE

S/N	PROGRAMMING SOFTWARE	PROGRAMMING LANGUAGES
1	SCRATCH	ADOBE FLASH, HTML5

2	ALICE	JAVA
3	VISUAL STUDIO CODE	VISUAL BASIC

## IMPORTANT NOTE:

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Programming languages are the basic tools for creating computer instructions or software. However, some experts in these languages put together software (tools) that can make programming easier.

Programs/Apps/Software are developed or created by developers/programmers using a set of instructions writing in a programming language or through a programming software

### **Uses of programing languages**

1. To create computer programs or software
2. To create games, animations and stories
3. To create Apps and websites