

Raspberry Pi 3 Beginner To Pro Guide Raspberry Pi 3 Python Programming

Raspberry Pi

The name "Raspberry Pi" combines the fruit-themed naming convention used by early computer companies with a nod to the Python programming language. The

Raspberry Pi (PY) is a series of small single-board computers (SBCs) originally developed in the United Kingdom by the Raspberry Pi Foundation in collaboration with Broadcom. To commercialize the product and support its growing demand, the Foundation established a commercial entity, now known as Raspberry Pi Holdings.

The Raspberry Pi was originally created to help teach computer science in schools, but gained popularity for many other uses for its low cost, high performance, compact size, and flexibility. It is now used in areas such as industrial automation, robotics, home automation, IoT devices, and hobbyist projects.

The company's products range from simple microcontrollers to computers that the company markets as being powerful enough to be used as a general purpose PC. Computers are built around a custom designed system on a chip and offer features such as HDMI video/audio output, USB ports, wireless networking, GPIO pins, and up to 16 GB of RAM. Storage is typically provided via microSD cards.

In 2015, the Raspberry Pi surpassed the ZX Spectrum as the best-selling British computer of all time. As of March 2026, over 75 million units had been sold.

== History ==

Makeblock

MegaPi mainboard and is compatible with Arduino and Raspberry Pi. Along with Makeblock's block-based programming, Arduino IDE, Node.js and Python languages

Makeblock (Chinese: 慧百泰) is a private Chinese technology company with headquarters in Shenzhen, China. It develops Arduino-based hardware, robotics hardware, and Scratch-based software for the purpose of providing educational tools for learning. This includes programming, engineering and mathematics through the use of robotics.

Makeblock's products are sold in more than 140 countries and have over 10 million users in 20,000 schools worldwide. Roughly 70 percent of Makeblock's sales occur outside of China, with the United States being the largest market.

== Founder & CEO ==

Jasen Wang (Wang Jianjun - 王健君), born in 1985 at Anhui, China, says that he grew up as an "ordinary and poor child". He earned his master's degree in Aircraft Design at Northwestern Polytechnical University in 2010, while tinkering with robotics on the side. Wang spent a year in the workforce before founding Makeblock in 2012.

Wang remains a product manager at the company. In 2013, Forbes China ranked Wang as one of the top 30 entrepreneurs under the age of 30.

After the founding of Makeblock in March 2012, \$23,000 was raised in a round of funding from HAX. The company received international coverage when it launched...

Gambas

Francois Revol. Gambas from version 3.2 can run on Raspberry Pi, and offers just-in-time compilation there from version 3.12. It can also be run from the

Gambas is an object-oriented dialect of the BASIC programming language, and an integrated development environment that accompanies it. Designed to run on Linux and other Unix-like computer operating systems, its name is a recursive acronym for Gambas Almost Means BASIC. Gambas is also the word for prawns in the Spanish, French, and Portuguese languages, from which the project's logos are derived.

== History ==

Gambas was developed by the French programmer Benoît Minisini, with its first release coming in 1999. Benoît had grown up with the BASIC language, and decided to make a free software development environment that could quickly and easily make programs with user interfaces.

The Gambas 1.x versions were first released on January 4, 2005, and featured an interface made up of several different separate windows for forms and IDE dialogues in a similar fashion to the interface of earlier versions of the GIMP. It could also only develop applications using Qt and was more oriented towards the development of applications for KDE. The last release of the 1.x versions was Gambas 1.0.19.

Numerical Electromagnetics Code

free antenna modeling program based on MININEC. Opens .MAA files. (MMANA-GAL also works on Linux using Wine, or on Raspberry Pi using Wine inside ExaGear)

The Numerical Electromagnetics Code, or NEC, is a popular antenna modeling computer program for wire and surface antennas. It was originally written in FORTRAN during the 1970s by Gerald Burke and Andrew Poggio of the Lawrence Livermore National Laboratory. The code was made publicly available for general use and has subsequently been distributed for many computer platforms from mainframes to PCs.

NEC is widely used for modeling antenna designs, particularly for common designs like television and radio antennas, shortwave and ham radio, and similar examples. Examples of practically any common antenna type can be found in NEC format on the internet. While highly adaptable, NEC has its limits, and other systems are commonly used for very large or complex antennas or special cases like microwave antennas.

By far the most common version is NEC-2, the last to be released in fully public form. There is a wide and varied market of applications that embed the NEC-2 code within frameworks to simplify or automate common tasks. Later versions, NEC-3 and NEC-4, are available after signing a license agreement. These have not been nearly as popular. Versions using the same underlying methods but...

Minecraft

2026. Halfacree, Gareth; Upton, Eben (2014). "Minecraft Pi Edition". Raspberry Pi User Guide (3rd ed.). Wiley. ISBN 978-1-118-92167-8. Upton, Eben (15

Minecraft is a sandbox video game developed and published by the Swedish company Mojang Studios. Following its initial public alpha release as an early access title in 2009, it was formally released in November 2011 for personal computers. The game has since been ported to numerous platforms, including mobile devices and various video game consoles.

In Minecraft, players explore a procedurally generated world with virtually infinite terrain made up of three-dimensional blocks represented as voxels. They can discover and extract raw materials, craft tools and items, build structures, fight hostile mobs, and cooperate with or compete against other players in multiplayer. In addition, the game's large community offers a wide variety of user-generated content, such as modifications, servers, player skins, texture packs, and custom maps, which add new game mechanics and possibilities.

Originally created by Markus "Notch" Persson using the Java programming language, Jens "Jeb" Bergensten was handed control over the game's development following its full release. In November 2014, Mojang and the Minecraft intellectual property were purchased by Microsoft for US\$2.5 billion; Xbox Game Studios...

Video games and Linux

Dominions 3 to Linux PowerPC, as well as Conquest of Elysium 3, Dominions 4: Thrones of Ascension to Raspberry Pi. Hyperion Entertainment ported Sin to Linux

Linux-based operating systems can be used for playing video games. Because fewer games natively support the Linux kernel than Windows, various software has been made to run Windows games, software, and programs, such as Wine, Cedega, DXVK, and Proton, and managers such as Lutris and PlayOnLinux. The Linux gaming community has a presence on the internet with users who attempt to run games that are not officially supported on Linux.

== History ==

List of Arduino boards and compatible systems

Mitchell, Graham (2010-06-09). "Introducing The Amicus18 [195] | Amicus18 Beginner Guides | Amicus18". Digital-diy.com. Archived from the original on 2010-09-20

This is a non-exhaustive list of Arduino boards and compatible systems. It lists boards in these categories:

Released under the official Arduino name

Arduino "shield" compatible

Development-environment compatible

Based on non-Atmel processors

Where different from the Arduino base feature set, compatibility, features, and licensing details are included.

Wikipedia:WikiProject Deletion sorting/Computing/archive

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== Computing ==

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== Software ==

Wikipedia:WikiProject Red Link Recovery/Exceptions

Films";"John Read";"John Reed" "APL programming language";"History of Programming Languages";"History of programming languages" "ARP_2600";"(M)ercurey"

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