



CLASE 1

CURSO INTRODUCTORIO A JAVA

Un curso básico sobre los fundamentos de Java para nuevos programadores.

14 de Febrero 2022
18 de Febrero 2022
1:00 p. m. - 2:00 p.m.

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Borrayo López**



TEMAS A IMPARTIR



En cada clase se realizarán ejemplos prácticos simples y se explicará cómo funcionan.



Clase 1:
Java, tipos de datos, variables, arrays, operaciones simples, input y output.



Clase 2:
Sentencias lógicas, ciclos.



Clase 3:
Funciones, clases, POO.



Clase 4:
Hilos, manejo de archivos.



Clase 5:
Punteros, estructuras de datos simples.

CLASE 1

Java, tipos de datos, variables, arrays, operaciones simples, input y output.

¿QUÉ ES JAVA?

Java es un lenguaje de programación orientado a objetos desarrollado en 1995 por Sun Microsystems.

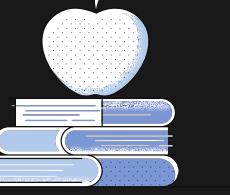
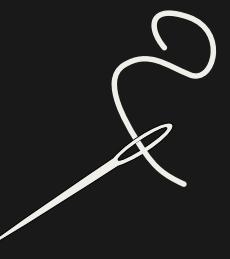
¿Cómo funciona?

El código escrito es compilado a código Bytecode el cual es leído por la Virtual Machine de Java para posteriormente ser ejecutados.

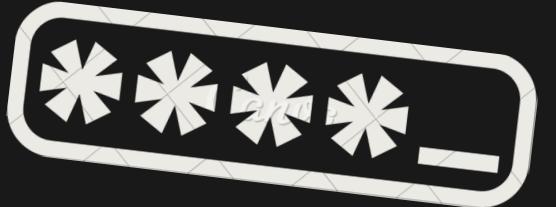


Java

CARACTERÍSTICAS

S simplicidad	I ndependiente de la plataforma	O rientado a objetos	M ultithread	G arbage collector
 Utiliza características fáciles de entender y aplicar.	 Debido a su JVM puede ser ejecutado en múltiples dispositivos que posean java instalado.	 Soporta las características de la programación orientada a objetos (POO)	 Permite correr código simultáneamente de manera más fácil y sencilla.	 Si existe algún objeto el cual no posea uso el recolector de basura lo borra liberando espacio en memoria.

POO -- (OOP) PROGRAMACIÓN ORIENTADA A OBJETOS

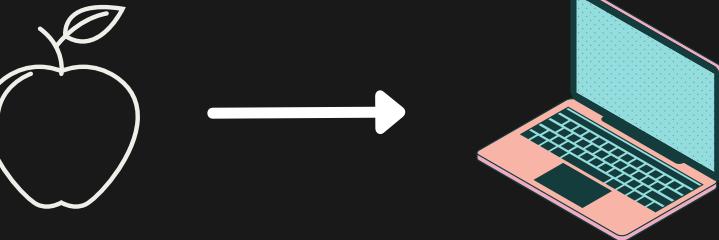


Hola -- hola -- hoLa -- HoLa -- hoLA

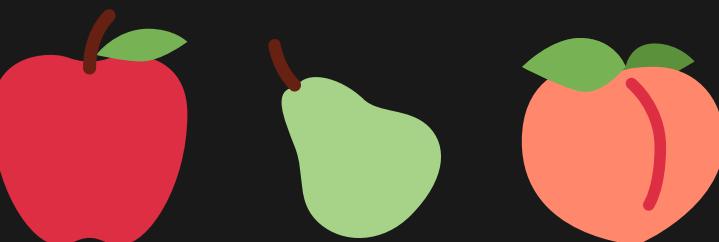
Java es case sensitive, es decir,
diferencia entre mayúsculas y
minúsculas.



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INSTALACIÓN DE JAVA

Y luego de esto empezamos a programar.

JAVA



Buscar

Java™

Descargar Ayuda Developers

Recursos de ayuda

- » [¿Qué es Java?](#)
- » [Eliminar versiones anteriores de Java](#)
- » [Desactivar Java](#)
- » [Mensajes de error](#)
- » [Solucionar problemas de Java](#)
- » [Otra ayuda](#)

Usuarios de Windows de 64 bits

¿Utiliza exploradores de 32 y 64 bits?
» [Preguntas frecuentes sobre Java de 64 bits para Windows](#)

Instalación fuera de línea

¿Problemas al descargar?
Intente con el [installer fuera de línea](#).

Descargar Java para Windows

Recomendado Version 8 Update 321 (Tamaño de archivo: 2.15 MB)

Fecha de publicación: 18 de enero de 2022

Actualización importante de la licencia de Oracle Java

La licencia de Oracle Java ha cambiado para las versiones publicadas a partir del 16 de abril de 2019.

El nuevo [acuerdo de licencia de Oracle Technology Network para Oracle Java SE](#) es sustancialmente diferente a las licencias de Oracle Java anteriores. La nueva licencia permite ciertos usos, como el uso personal y de desarrollo, sin coste alguno (aunque podría haber otros usos autorizados en licencias de Oracle Java anteriores que ya no estén disponibles). Revise las condiciones con atención antes de descargar y utilizar este producto. Puede consultar las preguntas frecuentes [aquí](#).

La licencia comercial y el soporte están disponibles con una [suscripción de Java SE](#) de bajo coste.

Oracle también ofrece la última versión de OpenJDK con la [licencia pública general](#) de código abierto en [jdk.java.net](#).

Aceptar e iniciar descarga gratuita

JDK



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Java 17 available now

Java 17 LTS is the latest long-term support release for the Java SE platform. JDK 17 binaries are free to use in production and free to redistribute, at no cost, under the Oracle No-Fee Terms and Conditions.

JDK 17 will receive updates under these terms, until at least September 2024.

Java SE Development Kit 17.0.2 downloads

Thank you for downloading this release of the Java™ Platform, Standard Edition Development Kit (JDK™). The JDK is a development environment for building applications using the Java programming language.

The JDK includes tools for developing and testing programs written in the Java programming language and running on the Java platform.

Linux macOS Windows

Product/file description	File size	Download
x64 Compressed Archive	171.34 MB	https://download.oracle.com/java/17/latest/jdk-17_windows-x64_bin.zip (sha256)
x64 Installer	152.43 MB	https://download.oracle.com/java/17/latest/jdk-17_windows-x64_bin.exe (sha256)
x64 MSI Installer	151.32 MB	https://download.oracle.com/java/17/latest/jdk-17_windows-x64_bin.msi (sha256)

IDE NETBEANS

The screenshot shows the Apache NetBeans website. At the top left is the Apache logo and the text "Apache NetBeans". At the top right is a "Community" link. Below the header, a blue banner features the text "Latest release" and "Apache NetBeans 12.6" in large white font, with a green "Download" button below it. The main content area has a white background and displays the title "Apache NetBeans Releases" in blue. Below this, a paragraph states "Apache NetBeans is released four times a year. For details, see [full release schedule](#)". A large blue button labeled "Apache NetBeans 12.6" is centered. Below it, smaller text says "Latest version of the IDE, released on November 29, 2021." At the bottom of the main content area are two buttons: "Features" (blue) and "Download" (green).

Apache NetBeans

Community

Latest release

Apache NetBeans 12.6

Download

Apache NetBeans Releases

Apache NetBeans is released four times a year. For details, see [full release schedule](#).

Apache NetBeans 12.6

Latest version of the IDE, released on November 29, 2021.

Features

Download

Downloading Apache NetBeans 12.6

Apache NetBeans 12.6 was released on November 29, 2021. See [Apache NetBeans 12.6 Features](#) for a full list of features.

Apache NetBeans 12.6 is available for download from your closest Apache mirror.

- Binaries: [netbeans-12.6-bin.zip](#) (SHA-512, PGP ASC)
- Installers:
 - [Apache-NetBeans-12.6-bin-windows-x64.exe](#) (SHA-512, PGP ASC)
 - [Apache-NetBeans-12.6-bin-linux-x64.sh](#) (SHA-512, PGP ASC)
 - [Apache-NetBeans-12.6-bin-macosx.dmg](#) (SHA-512, PGP ASC)



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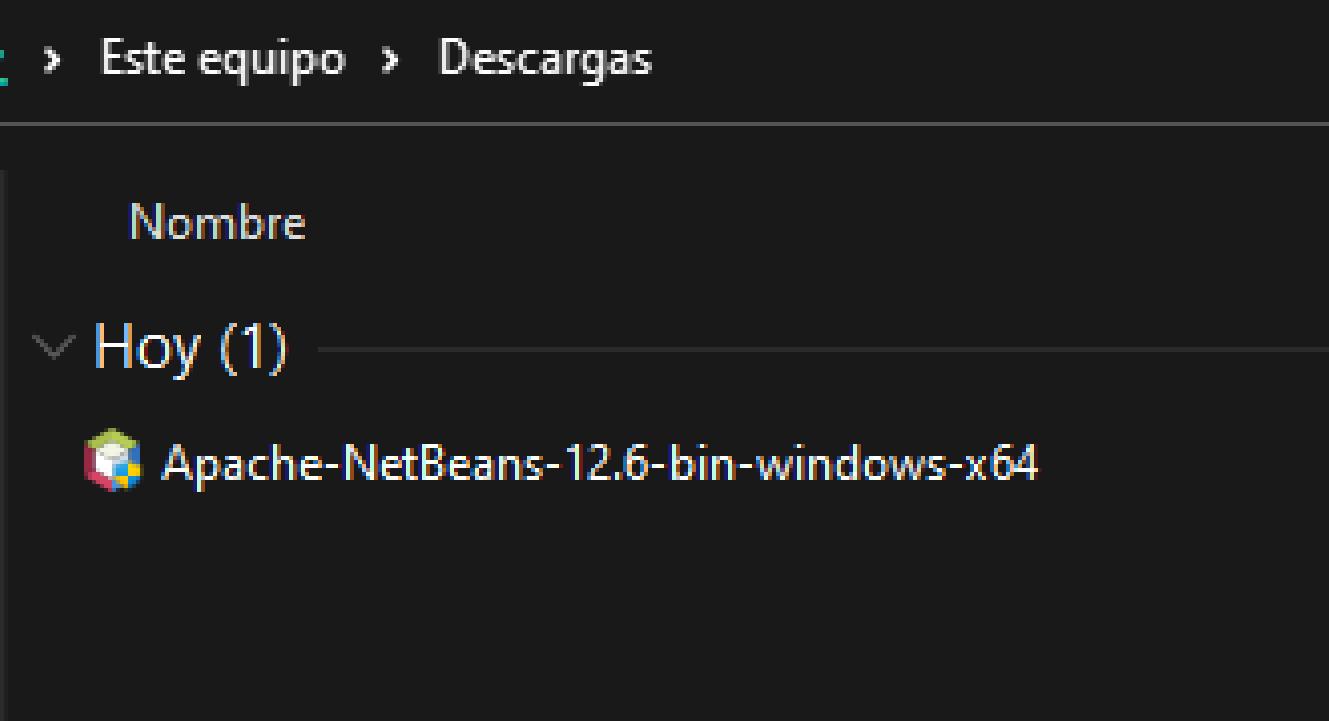
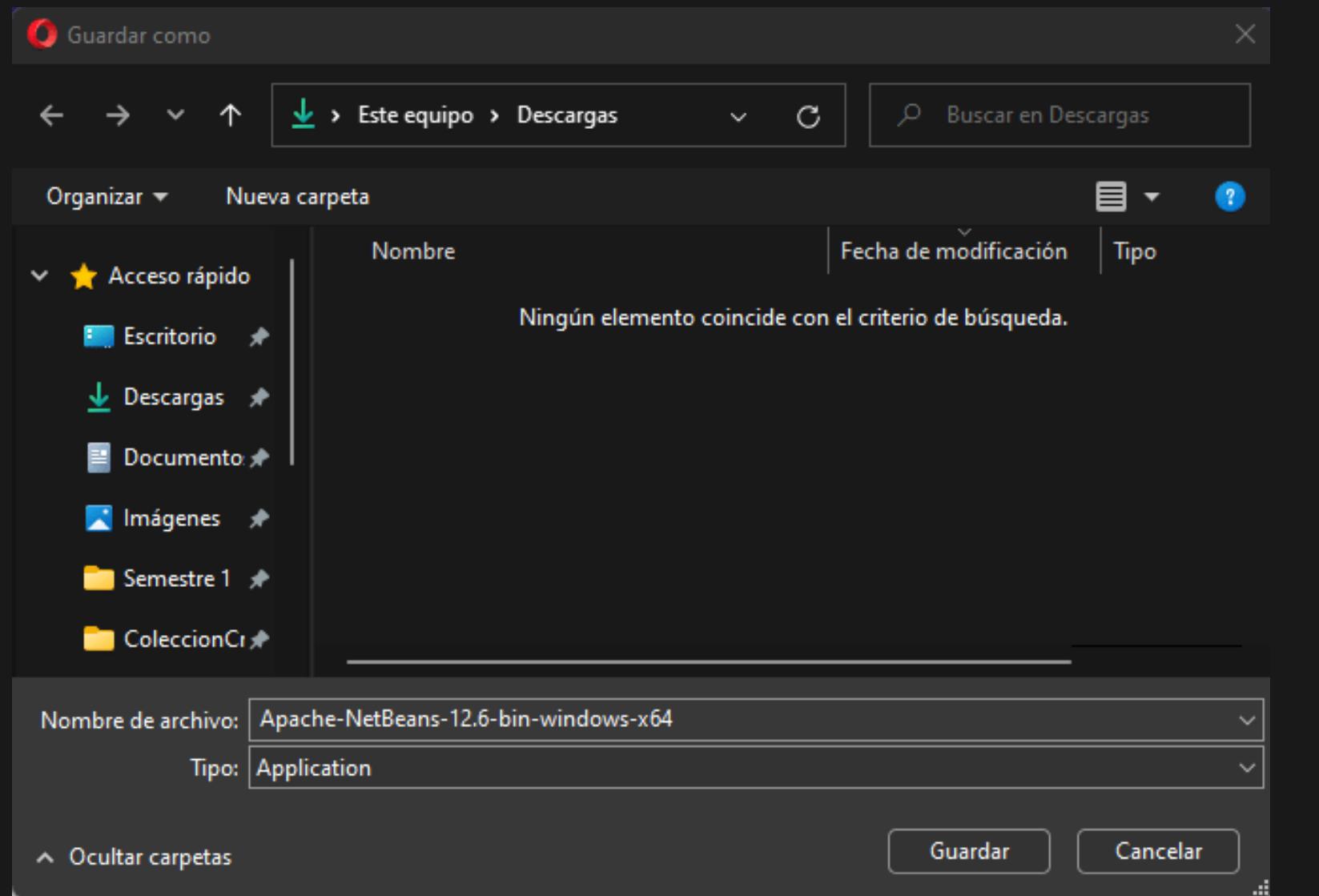
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We suggest the following site for your download:

<https://dlcdn.apache.org/netbeans/netbeans-installers/12.6/Apache-NetBeans-12.6-bin-windows-x64.exe>

Alternate download locations are suggested below.

It is essential that you verify the integrity of the downloaded file using the PGP signature ([.asc](#) file) or a hash ([.md5](#) or [.sha*](#) file).



Apache NetBeans IDE Installer

Welcome to the Apache NetBeans IDE 12.6 Installer

The installer will install the NetBeans IDE with the following packs and runtimes.
Click Customize to select the packs and runtimes to install.

Base IDE
Java SE
Java EE
HTML5/JavaScript
PHP

Customize...

Installation Size: 761.9 MB

Next > Cancel

Apache NetBeans IDE Installer

License Agreement

Please read the following license agreement carefully.

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< Back Next > Cancel



Apache NetBeans IDE 12.6 Installation

Choose the installation folder and JDK™.

Install the Apache NetBeans IDE to:

C:\Program Files\NetBeans-12.6



JDK™ for the Apache NetBeans IDE:

C:\Program Files\Java\jdk-17.0.1



Summary

Click Install to start the installation.



Base IDE Installation Folder:

C:\Program Files\NetBeans-12.6

Check for Updates

The NetBeans installer can automatically check for updates of installed plugins using your Internet connection.

Total Installation Size:

761.9 MB

< Back

Next >

Cancel

< Back

Install

Cancel



Preparing Installation Data...

Please wait while the wizard prepares the installation data.

Extracting installation data for Java SE

4 %



Setup Complete

Click Finish to complete the Apache NetBeans IDE setup.



Installation completed successfully.

All plugins are up to date.

To launch the IDE, use either the Start menu or the Apache NetBeans desktop icon.

To change installed components and add NetBeans plugins, use Plugin Manager that is an integral part of Apache NetBeans IDE.

Next >

Cancel

Finish



