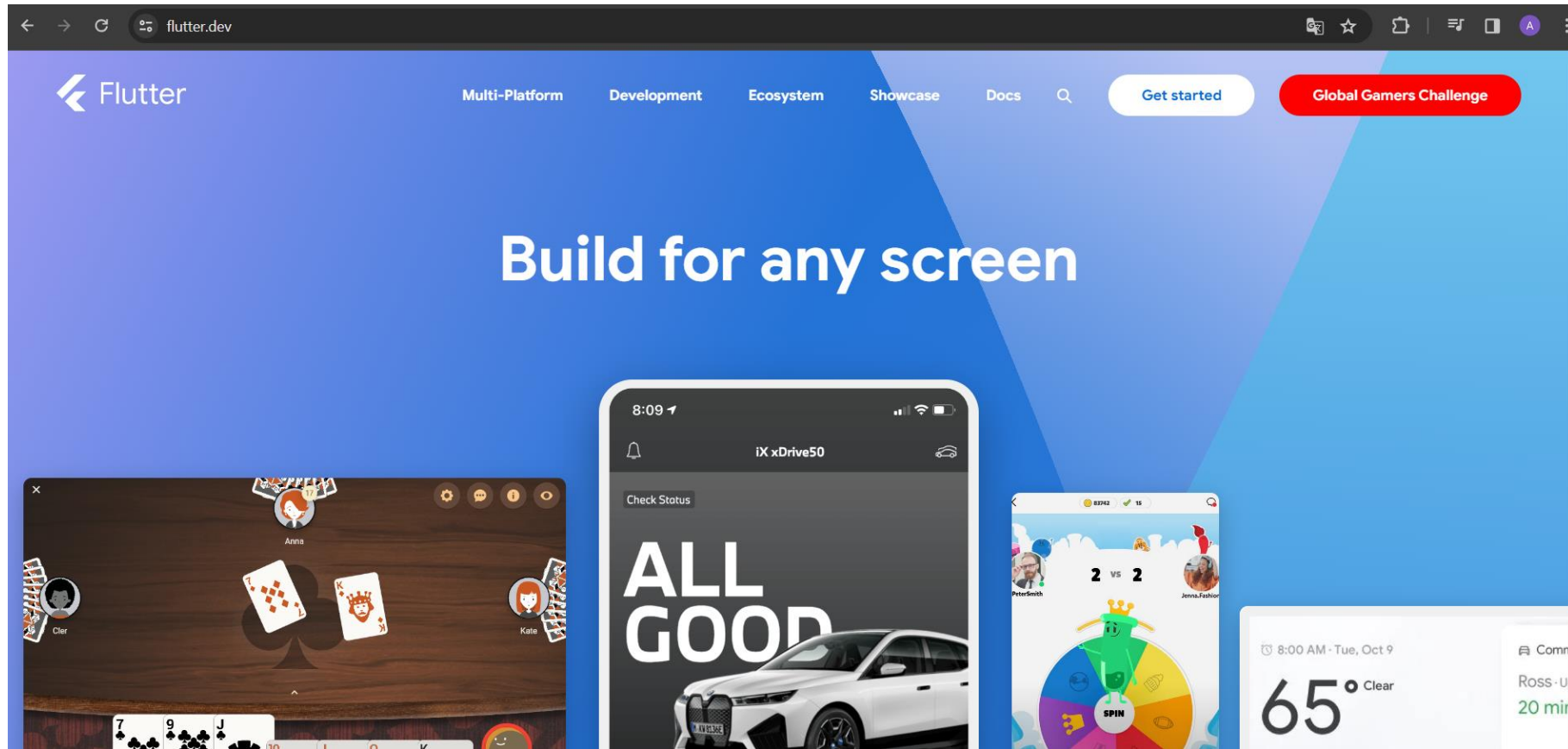


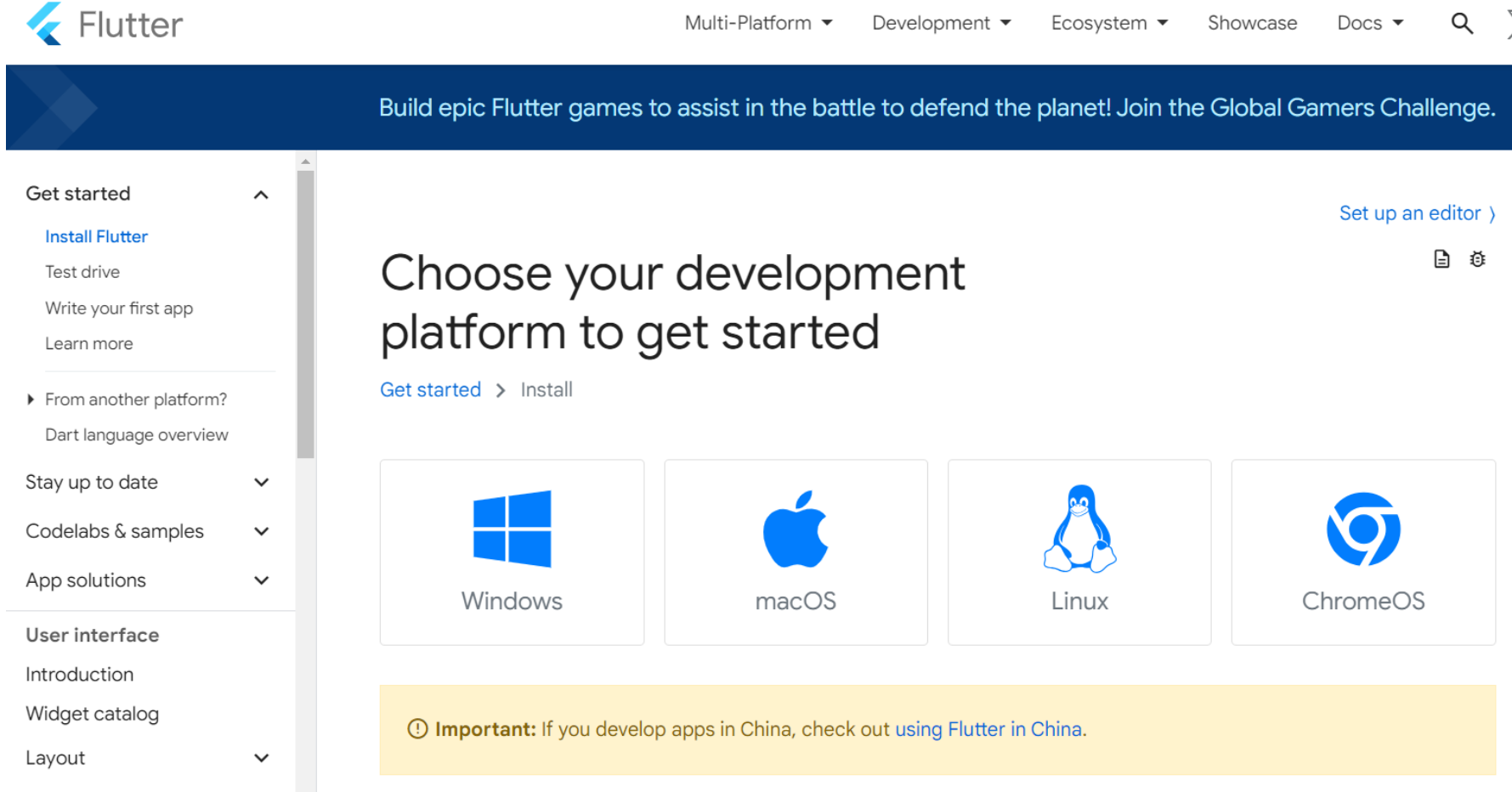
<https://flutter.dev/>



Get started'ı seç

Flutter resmi sayfasına gel ve Windows'u seç

<https://docs.flutter.dev/get-started/install>



The image shows the Flutter website header and navigation menu. The header is dark blue with the Flutter logo on the left and navigation links on the right: Multi-Platform, Development, Ecosystem, Showcase, Docs, a search icon, and a hamburger menu icon. Below the header is a dark blue banner with the text "Build epic Flutter games to assist in the battle to defend the planet! Join the Global Gamers Challenge." On the left side of the page is a sidebar with a list of links: Get started (with a caret icon), Install Flutter (highlighted in blue), Test drive, Write your first app, Learn more, From another platform? (with a right-pointing triangle icon), Dart language overview, Stay up to date (with a downward arrow icon), Codelabs & samples (with a downward arrow icon), App solutions (with a downward arrow icon), User interface (with a downward arrow icon), Introduction, Widget catalog, and Layout (with a downward arrow icon). The main content area has a white background. At the top right of the main content area is a link "Set up an editor" with a right-pointing triangle icon, and below it are two icons: a document icon and a Flutter logo icon. The main heading is "Choose your development platform to get started". Below the heading is a breadcrumb link "Get started" followed by a right-pointing triangle icon and the word "Install". Below the heading are four white boxes with rounded corners, each containing a logo and a platform name: Windows (Windows logo), macOS (Apple logo), Linux (Tux penguin logo), and ChromeOS (ChromeOS logo). Below these boxes is a yellow box with a warning icon and the text "Important: If you develop apps in China, check out using Flutter in China."

Flutter

Multi-Platform Development Ecosystem Showcase Docs

Build epic Flutter games to assist in the battle to defend the planet! Join the Global Gamers Challenge.

Get started

Install Flutter

Test drive

Write your first app

Learn more

From another platform?

Dart language overview

Stay up to date

Codelabs & samples

App solutions

User interface

Introduction

Widget catalog

Layout

Set up an editor

Choose your development platform to get started

Get started Install

Windows macOS Linux ChromeOS

Important: If you develop apps in China, check out using Flutter in China.

Windows'u seçiyoruz

<https://docs.flutter.dev/get-started/install/windows>

Bu sayfada Windows için gerekli olan sistem gereksinimlerini göreceğiz ve kurulumlar için linklerden dosyaları indireceğiz.

Build epic Flutter games to assist in the battle to defend the planet! Join the Global Gamers Challenge.

Get started ^

[Install Flutter](#)[Test drive](#)[Write your first app](#)[Learn more](#)[► From another platform?](#)[Dart language overview](#)[Stay up to date](#) ▾[Codelabs & samples](#) ▾[App solutions](#) ▾

User interface

[Introduction](#)[Widget catalog](#)[Layout](#) ▾[Design & theming](#) ▾[Interactivity](#) ▾[Create a test app >](#)

Start building Flutter native desktop apps on Windows

[Get started](#) > [Install](#) > [Windows](#) > Windows Desktop app

⚠ **Important:** Perform this guide in sequence. Skipping steps can cause errors.

System requirements

To install and run Flutter, your Windows environment must meet these requirements:

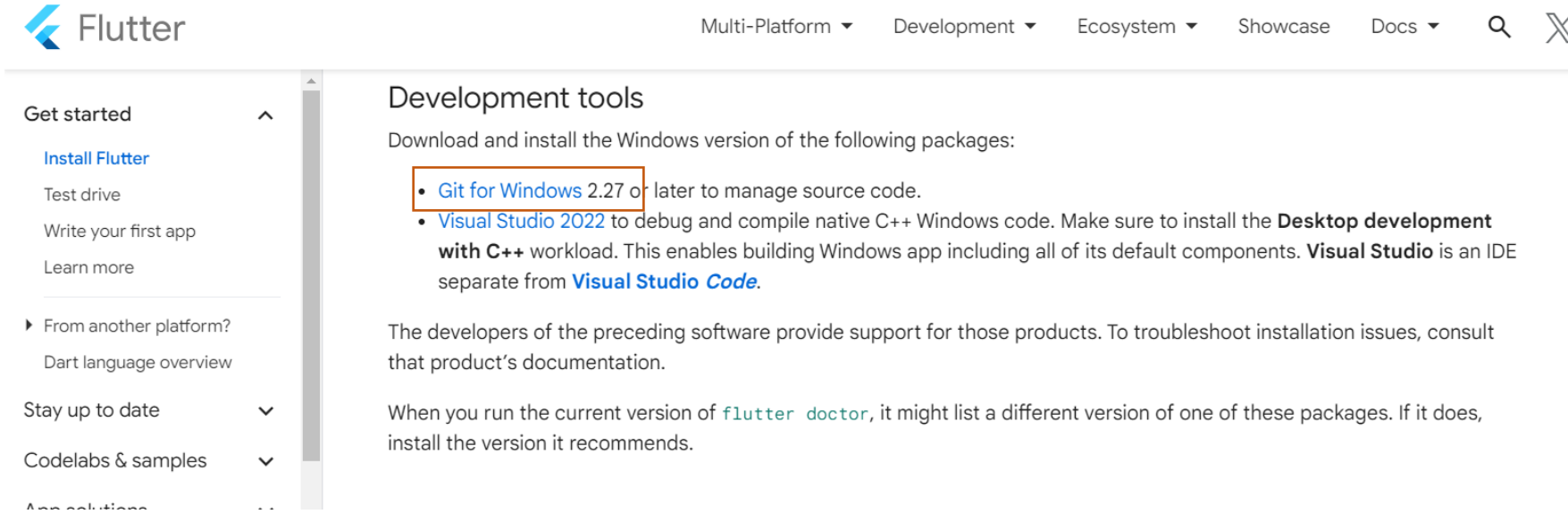
Hardware requirements

Your Windows Flutter development environment must meet the following minimal hardware requirements.

Contents

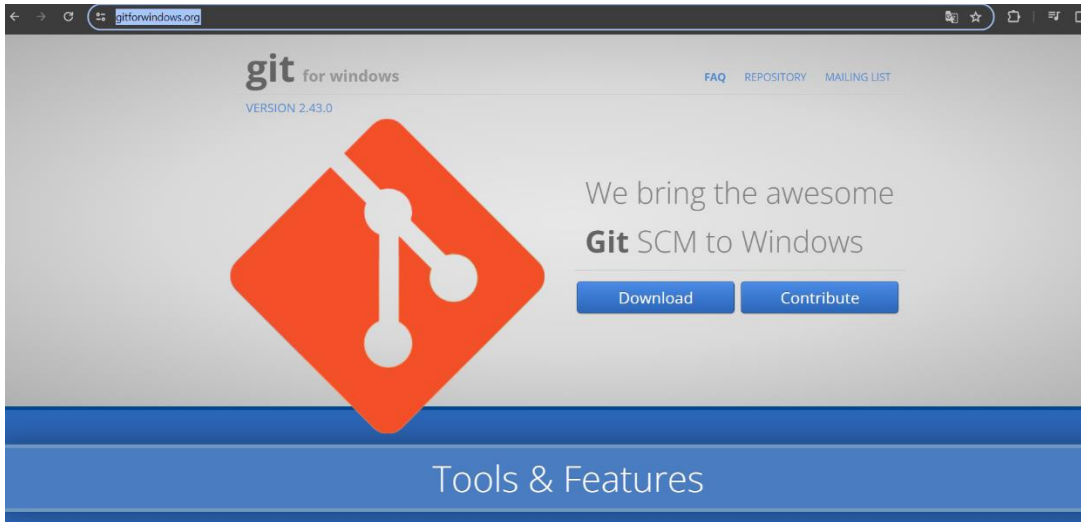
[System requirements](#)[Hardware requirements](#)[Software requirements](#)[Configure a text editor or IDE](#)[Install the Flutter SDK](#)[Check your development setup](#)[Run Flutter doctor](#)[Troubleshoot Flutter doctor issues](#)[Manage your Flutter SDK](#)

Öncelikle Geliştirme araçlarından Git for Windows'u kuruyoruz



The screenshot shows the Flutter website's navigation menu and the 'Development tools' section. The 'Get started' menu on the left includes 'Install Flutter', 'Test drive', 'Write your first app', 'Learn more', 'From another platform?', 'Dart language overview', 'Stay up to date', 'Codelabs & samples', and 'App solutions'. The 'Development tools' section is titled 'Development tools' and contains the text: 'Download and install the Windows version of the following packages:'. It lists two items: 'Git for Windows 2.27 or later to manage source code.' and 'Visual Studio 2022 to debug and compile native C++ Windows code. Make sure to install the Desktop development with C++ workload. This enables building Windows app including all of its default components. Visual Studio is an IDE separate from Visual Studio Code.' Below this, it states: 'The developers of the preceding software provide support for those products. To troubleshoot installation issues, consult that product's documentation.' and 'When you run the current version of flutter doctor, it might list a different version of one of these packages. If it does, install the version it recommends.'

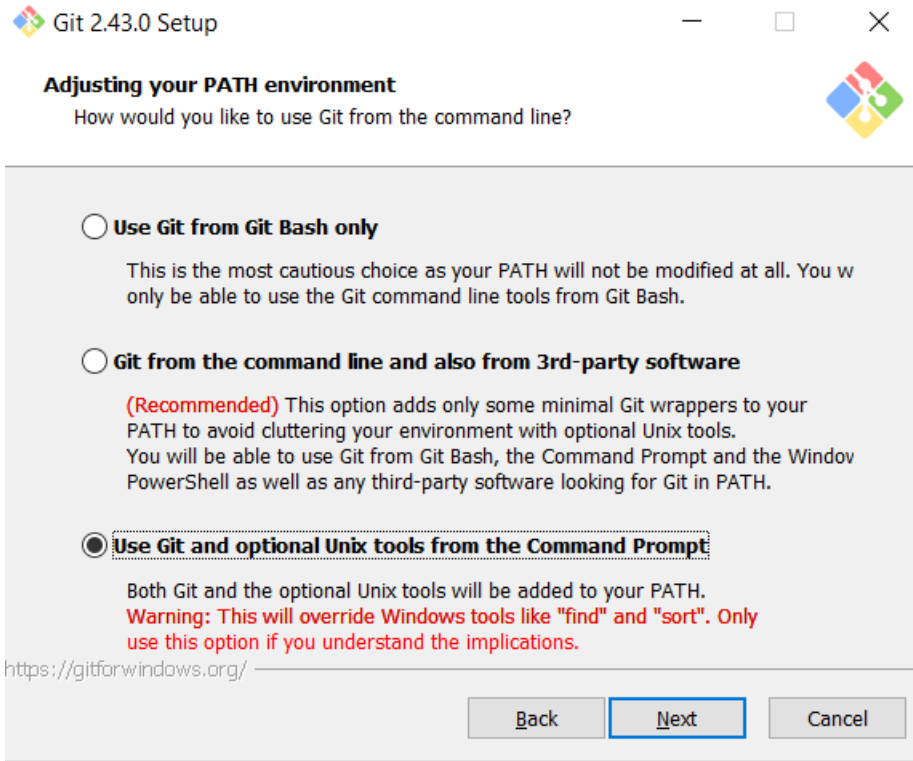
<https://gitforwindows.org/>



The screenshot shows the Git for Windows website. The header includes the 'git for windows' logo, the version 'VERSION 2.43.0', and links for 'FAQ', 'REPOSITORY', and 'MAILING LIST'. The main content area features a large orange diamond logo with a white Git branching diagram inside. To the right of the logo, the text reads: 'We bring the awesome Git SCM to Windows'. Below this text are two buttons: 'Download' and 'Contribute'. At the bottom of the page, there is a blue banner with the text 'Tools & Features'.

Kurulum dosyalarını indirin

Kurulumda değiştirmeniz gereken özellik şu olacak:



Get started ^

[Install Flutter](#)

[Test drive](#)

[Write your first app](#)

[Learn more](#)

► [From another platform?](#)

[Dart language overview](#)

Stay up to date ▾

Codelabs & samples ▾

App solutions ▾

User interface

[Introduction](#)

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[Design & theming](#) ▾

[Interactivity](#) ▾

[Assets & media](#) ▾

[Navigation & routing](#) ▾

[Use VS Code to install](#)

[Download and install](#)

Download then install Flutter

To install Flutter, download the Flutter SDK bundle from its archive, move the bundle to where you want it stored, then extract the SDK.

1. Download the following installation bundle to get the latest stable release of the Flutter SDK.

[flutter_windows_3.16.9-stable.zip](#)

For other release channels, and older builds, check out the [SDK archive](#).

The Flutter SDK should download to the Windows default download directory: %USERPROFILE%\Downloads.

If you changed the location of the Downloads directory, replace this path with that path. To find your Downloads directory location, check out this [Microsoft Community post](#).

2. Create a folder where you can install Flutter.

Consider creating a directory at %USERPROFILE% (C:\Users\{username}) or %LOCALAPPDATA% (C:\Users\{username}\AppData\Local).

⚠ Warning:

Don't install Flutter to a directory or path that meets one or both of the following conditions:

Kurulum dosyalarını alacağınız ve dosyaları ekleyeceğimiz yere dikkat edin

Şimdi ise Windows Path güncellemesi yapmamız gerekiyor



Multi-Platform ▾

Development ▾

Ecosystem ▾

Showcase

Docs ▾



Get started ^

[Install Flutter](#)

[Test drive](#)

[Write your first app](#)

[Learn more](#)

► [From another platform?](#)

[Dart language overview](#)

Stay up to date ▾

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[Introduction](#)

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[Design & theming](#) ▾

[Interactivity](#) ▾

[Assets & media](#) ▾

<https://docs.flutter.dev/setting-up> ▾

Update your Windows PATH variable

[? Help](#)

To run Flutter commands in PowerShell, add Flutter to the **PATH** environment variable. This section presumes that you installed the Flutter SDK in `%USERPROFILE%\dev\flutter`.

1. Press **Windows** + **Pause**.

If your keyboard lacks a **Pause** key, try **Windows** + **Fn** + **B**.

The **System > About** dialog displays.

2. Click **Advanced System Settings > Advanced > Environment Variables...**

The **Environment Variables** dialog displays.

3. In the **User variables for (username)** section, look for the **Path** entry.

a. If the entry exists, double-click on it.

The **Edit Environment Variable** dialog displays.

i. Double-click in an empty row.

ii. Type `%USERPROFILE%\dev\flutter\bin`.

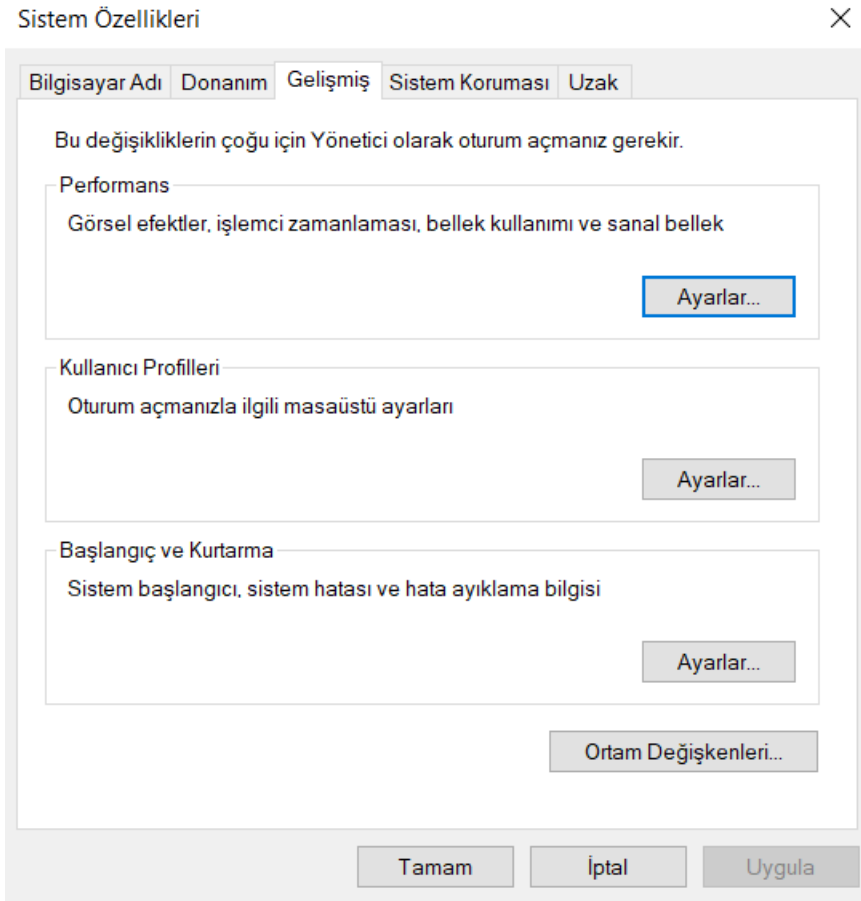
iii. Click the `%USERPROFILE%\dev\flutter\bin` entry.

iv. Click **Move Up** until the Flutter entry sits at the top of the list.

v. Click **OK** three times.

“Sistem ortam deęişkenlerini düzenleyin” seçeneęini aratarak bulun ve ikinci adımda yolu güncelleyin

Ortam deęişkelerini seçin



Kullanıcı deęişkenleri

TOPKAPI için kullanıcı değişkenleri

Değişken	Değer
OneDrive	C:\Users\TOPKAPI\OneDrive
Path	C:\Users\TOPKAPI\AppData\Local\Microsoft\WindowsApps;
TEMP	C:\Users\TOPKAPI\AppData\Local\Temp
TMP	C:\Users\TOPKAPI\AppData\Local\Temp

Yeni...

Düzenle...

Sil

Sistem değişkenleri

Değişken	Değer
ComSpec	C:\Windows\system32\cmd.exe
DriverData	C:\Windows\System32\Drivers\DriverData
NUMBER_OF_PROCESSORS	4
OS	Windows_NT
Path	C:\Program Files (x86)\Common Files\Oracle\Java\javapath;C:...
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC
PROCESSOR_ARCHITECTU...	AMD64
PROCESSOR_IDENTIFIER	...

Yeni...

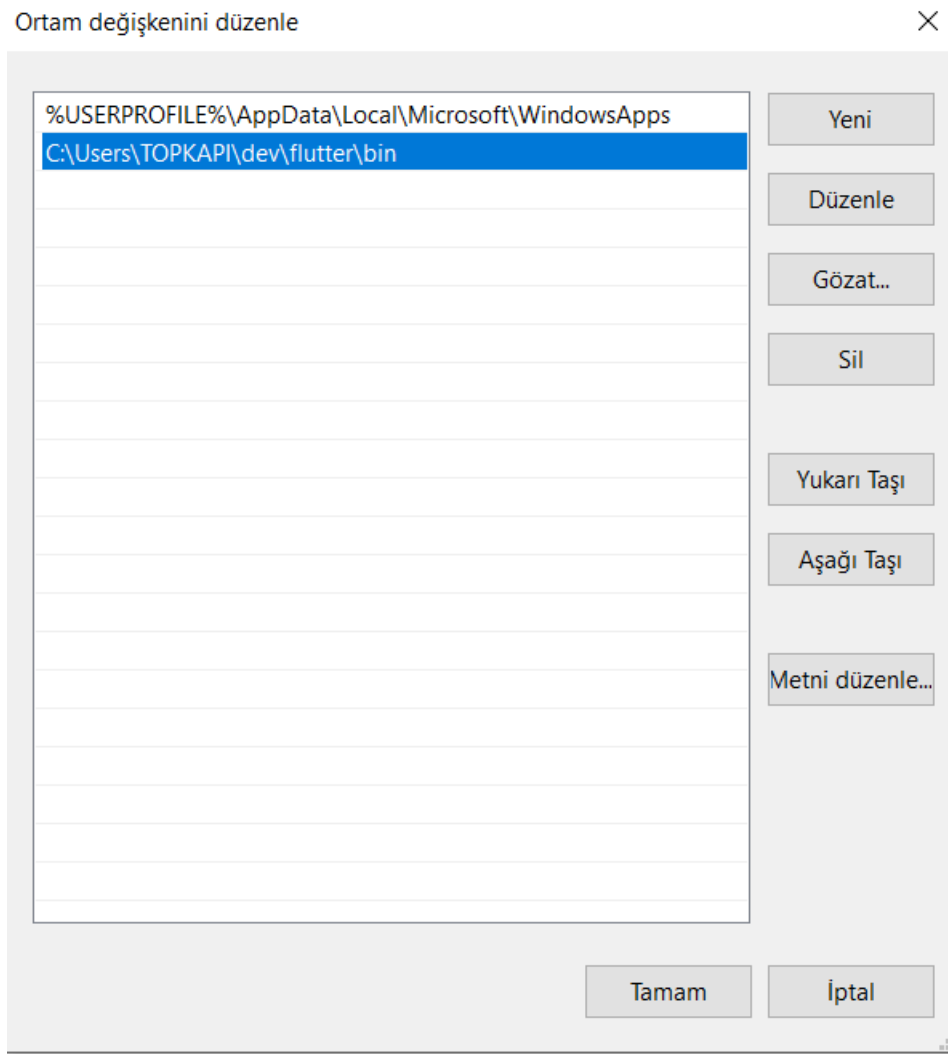
Düzenle...

Sil

Tamam

İptal


Path seçili iken düzenleye tıklıyoruz



Tamam'a tıklayarak tanımlamayı yapıyoruz.

Şimdi flutter doctor ile kurulumu kontrol ediyoruz

Windows PowerShell'i açıyoruz

 Windows PowerShell

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\TOPKAPI> flutter doctor
```

A new version of Flutter is available!

To update to the latest version, run "flutter upgrade".

Welcome to Flutter! - <https://flutter.dev>

The Flutter tool uses Google Analytics to anonymously report feature usage statistics and basic crash reports. This data is used to help improve Flutter tools over time.

Flutter tool analytics are not sent on the very first run. To disable reporting, type 'flutter config --no-analytics'. To display the current setting, type 'flutter config'. If you opt out of analytics, an opt-out event will be sent, and then no further information will be sent by the Flutter tool.

By downloading the Flutter SDK, you agree to the Google Terms of Service. The Google Privacy Policy describes how data is handled in this service.

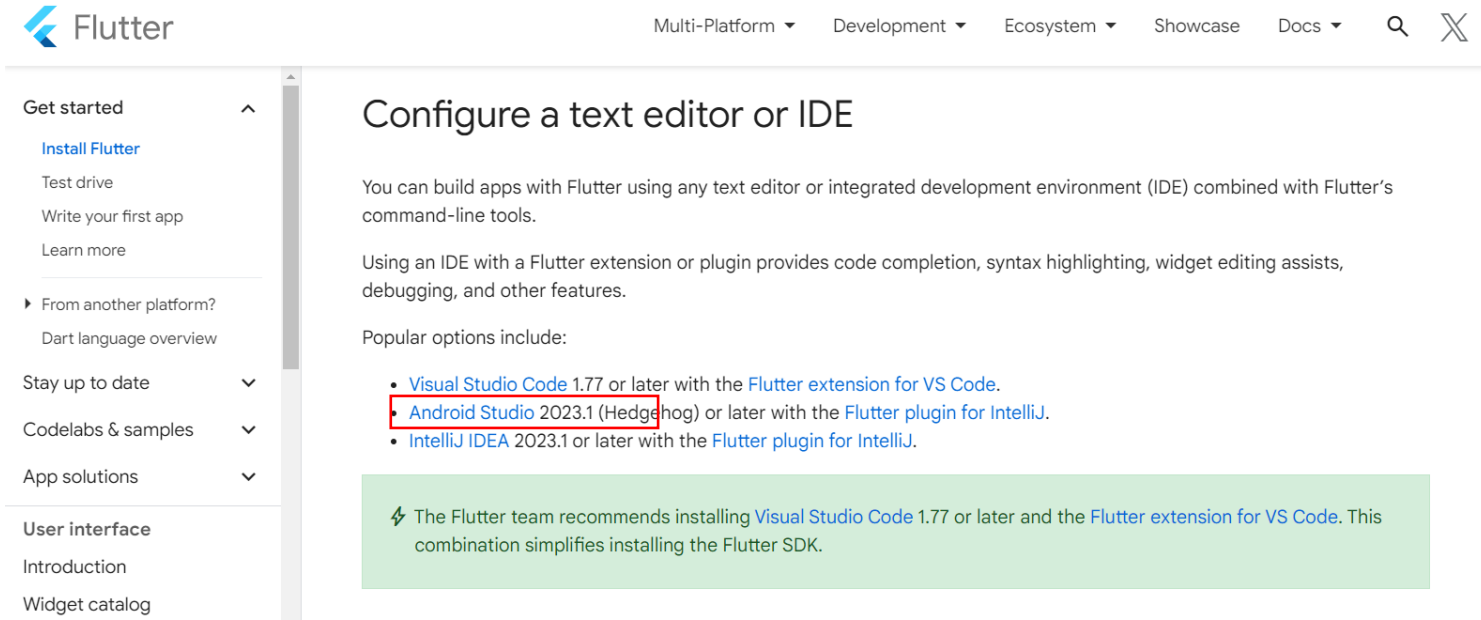
Moreover, Flutter includes the Dart SDK, which may send usage metrics and crash reports to Google.

Read about data we send with crash reports:
<https://flutter.dev/docs/reference/crash-reporting>

See Google's privacy policy:
<https://policies.google.com/privacy>

To disable animations in this tool, use 'flutter config --no-animations'.

Şimdi Android Studio'yu kuralım



The screenshot shows the Flutter website's 'Get started' page. The left sidebar contains links like 'Install Flutter', 'Test drive', 'Write your first app', 'Learn more', 'From another platform?', 'Dart language overview', 'Stay up to date', 'Codelabs & samples', 'App solutions', 'User interface', 'Introduction', and 'Widget catalog'. The main content area is titled 'Configure a text editor or IDE'. It explains that Flutter apps can be built using any text editor or IDE with Flutter's command-line tools. It then lists popular options: Visual Studio Code 1.77 or later with the Flutter extension for VS Code, Android Studio 2023.1 (Hedgehog) or later with the Flutter plugin for IntelliJ, and IntelliJ IDEA 2023.1 or later with the Flutter plugin for IntelliJ. A green callout box states: 'The Flutter team recommends installing Visual Studio Code 1.77 or later and the Flutter extension for VS Code. This combination simplifies installing the Flutter SDK.'

Flutter

Multi-Platform ▾ Development ▾ Ecosystem ▾ Showcase Docs ▾ 🔍

Get started

- Install Flutter
- Test drive
- Write your first app
- Learn more

From another platform?

- Dart language overview

Stay up to date

- Codelabs & samples
- App solutions

User interface

- Introduction
- Widget catalog

Configure a text editor or IDE

You can build apps with Flutter using any text editor or integrated development environment (IDE) combined with Flutter's command-line tools.

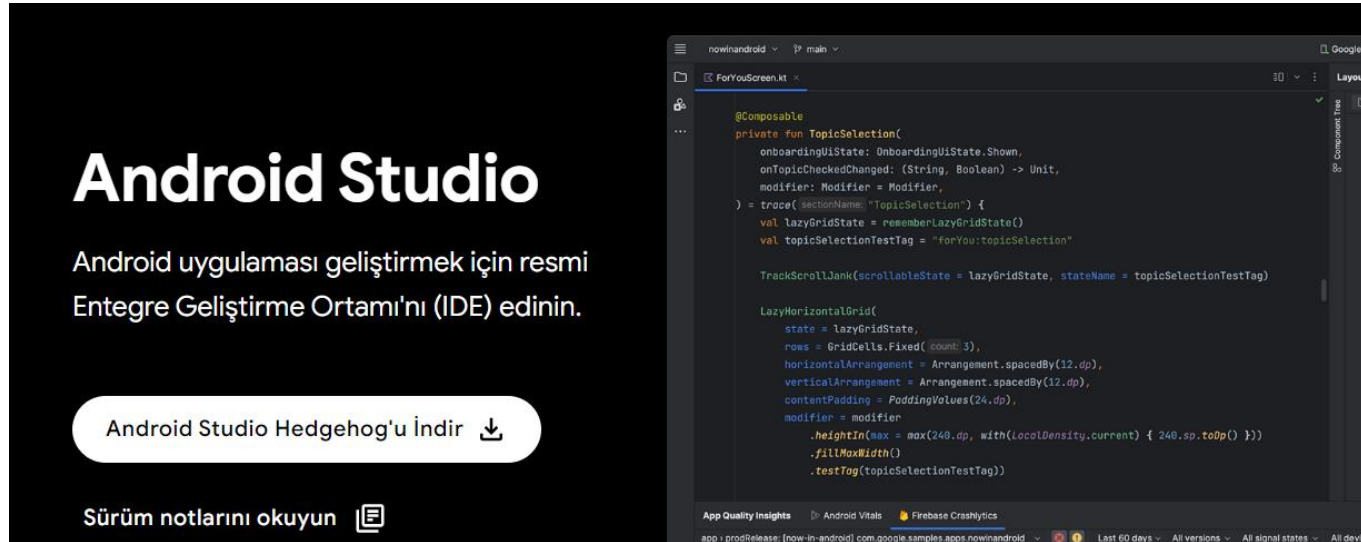
Using an IDE with a Flutter extension or plugin provides code completion, syntax highlighting, widget editing assists, debugging, and other features.

Popular options include:

- Visual Studio Code 1.77 or later with the Flutter extension for VS Code.
- Android Studio 2023.1 (Hedgehog) or later with the Flutter plugin for IntelliJ.
- IntelliJ IDEA 2023.1 or later with the Flutter plugin for IntelliJ.

⚡ The Flutter team recommends installing Visual Studio Code 1.77 or later and the Flutter extension for VS Code. This combination simplifies installing the Flutter SDK.

<https://developer.android.com/studio?hl=tr>



The banner features the Android Studio logo and text: 'Android Studio', 'Android uygulaması geliştirmek için resmi Entegre Geliştirme Ortamı'nı (IDE) edinin.', and a button 'Android Studio Hedgehog'u indir'. Below the button is a link 'Sürüm notlarını okuyun'. On the right, a screenshot of the Android Studio IDE is shown, displaying Kotlin code for a 'TopicSelection' screen. The code includes state management with 'rememberLazyGridState()' and a 'LazyHorizontalGrid' widget. The bottom of the IDE shows 'App Quality Insights' and 'Firebase Crashlytics'.

Android Studio

Android uygulaması geliştirmek için resmi Entegre Geliştirme Ortamı'nı (IDE) edinin.

Android Studio Hedgehog'u indir

Sürüm notlarını okuyun

```
@Composable
private fun TopicSelection(
    onboardingUIState: OnboardingUIState.Shown,
    onTopicCheckedChanged: (String, Boolean) -> Unit,
    modifier: Modifier = Modifier,
) = trace(sectionName: "TopicSelection") {
    val lazyGridState = rememberLazyGridState()
    val topicSelectionTestTag = "forYou:topicSelection"

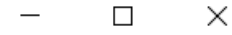
    TrackScrollJank(scrollableState = lazyGridState, stateName = topicSelectionTestTag)

    LazyHorizontalGrid(
        state = lazyGridState,
        rows = GridCells.Fixed(count = 3),
        horizontalArrangement = Arrangement.spacedBy(12.dp),
        verticalArrangement = Arrangement.spacedBy(12.dp),
        contentPadding = PaddingValues(24.dp),
        modifier = modifier
    ) {
        .heightIn(max = max(240.dp, with(LocalDensity.current) { 240.sp.toDp() }))
        .fillMaxWidth()
        .testTag(topicSelectionTestTag)
    }
}
```

Kurulumu yapın.

Kurulum sürecinde kurulum türünü custom olarak seçin

Android Studio Setup Wizard



Install Type

Choose the type of setup you want for Android Studio:

☐ Standard

Android Studio will be installed with the most common settings and options.
Recommended for most users.

☒ Custom

You can customize installation settings and components installed.

Previo...

Next

Cancel

Finish



SDK Components Setup

Check the components you want to update/install. Click Next to continue.

- ☒ Android SDK – (406 MB)
- ☐ Android SDK Platform
- ☒ Android 14.0 ("UpsideDownCake"; API 34) – (159 MB)
- ☒ Performance (Intel® HAXM) – (500 KB)
- ☒ Performance (Android Emulator hypervisor driver) – (165 KB)
- ☒ Android Virtual Device – (1,44 GB)

SDK components for creating applications for different Android platforms

Android SDK Location:

C:\Users\TOPKAPI\AppData\Local\Android\Sdk

Total download size: 1,99 GB

Available disk space: 171 GB (drive)

Previo...

Next

Cancel

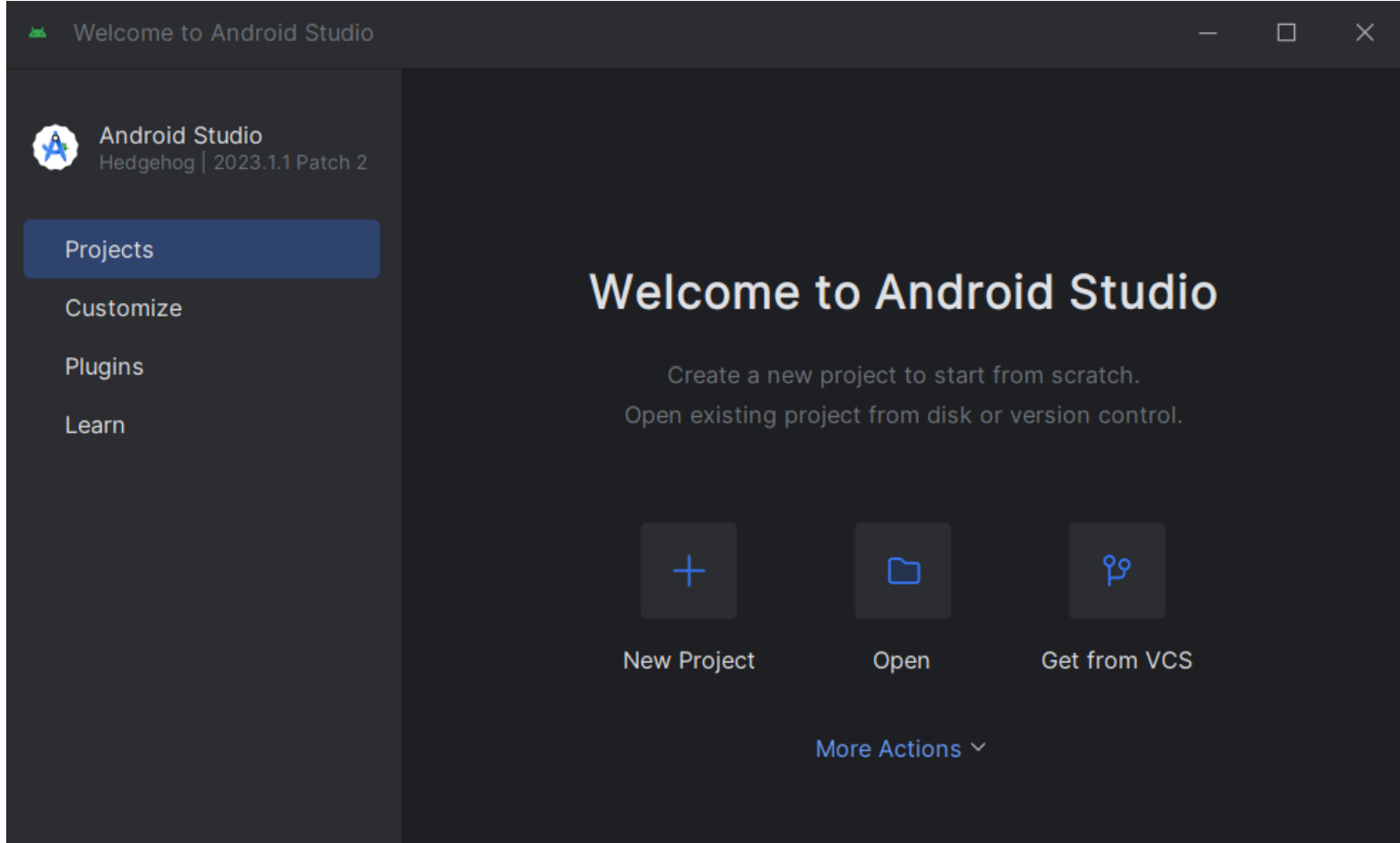
Finish

Android SDK platform altında seçenek seçili olsun.

En son lisansları onaylayıp component'ların yüklenmesini sağlayın.

Programın açılış ekranında

More actions seçeneğinden Sdk Manager'ı açın



Aşağıdaki tool'lardan seçili olmayan varsa seçilmeli ve apply seçeneği ile yüklenmelidir.

Settings

Q

> Appearance & Behavior

Keymap

> Editor

> Build, Execution, Deployment

> Languages & Frameworks

Android SDK

Kotlin

> Tools

Advanced Settings

Layout Inspector

Languages & Frameworks > Android SDK

Reset

← →

Manager for the Android SDK and Tools used by the IDE

Android SDK Location: C:\Users\TOPKAPI\AppData\Local\Android\Sdk

Edit

Optimize disk space

SDK Platforms

SDK Tools

SDK Update Sites

Below are the available SDK developer tools. Once installed, the IDE will automatically check for updates. Check "show package details" to display available versions of an SDK Tool.

	Name	Version	Status
<input checked="" type="checkbox"/>	Android SDK Build-Tools 34		Installed
<input type="checkbox"/>	NDK (Side by side)		Not Installed
<div>↓</div>	<input checked="" type="checkbox"/> Android SDK Command-line Tools (latest)		Not Installed
<input type="checkbox"/>	CMake		Not Installed
<input type="checkbox"/>	Android Auto API Simulators	1	Not installed
<input type="checkbox"/>	Android Auto Desktop Head Unit Emulator	2.0	Not installed
<input checked="" type="checkbox"/>	Android Emulator	33.1.24	Installed
<input checked="" type="checkbox"/>	Android Emulator hypervisor driver (installer)	2.0.0	Installed
<input checked="" type="checkbox"/>	Android SDK Platform-Tools	34.0.5	Installed
<input type="checkbox"/>	Google Play APK Expansion library	1	Not installed
<input type="checkbox"/>	Google Play Instant Development SDK	1.9.0	Not installed
<input type="checkbox"/>	Google Play Licensing Library	1	Not installed
<input type="checkbox"/>	Google Play services	49	Not installed
<input type="checkbox"/>	Google USB Driver	13	Not installed
<input type="checkbox"/>	Google Web Driver	2	Not installed

☒ Hide Obsolete Packages

☐ Show Package Details

? Project-level settings will be applied to new projects

OK


Cancel

Apply


Bu kurulum da tamamlandıktan sonra more actions'tan virtual device manager seçeneğine gelelim ve burada bir sanal bir cihaz yani emülatör için ayarlamalarımızı yapalım.



Şimdi bir editöre ihtiyacımız var bunu için Visual Studio Code yükleyeceğiz. <https://code.visualstudio.com/docs?dv=win>

 Visual Studio Code

Docs Updates Blog API Extensions FAQ Learn

 Search Docs

Download

OVERVIEW

SETUP

GET STARTED

USER GUIDE

SOURCE CONTROL

TERMINAL

GITHUB COPILOT

LANGUAGES

NODE.JS / JAVASCRIPT

TYPESCRIPT

PYTHON

JAVA

C++

C#

DOCKER

DATA SCIENCE

AZURE

REMOTE

DEV CONTAINERS

Thanks for downloading VS Code for Windows!

Download not starting? Try this [direct download link](#).

Please take a few seconds and help us improve ... [click to take survey](#).

GETTING STARTED

VS Code in Action

Top Extensions

First Steps

Keyboard Shortcuts

Downloads

Privacy

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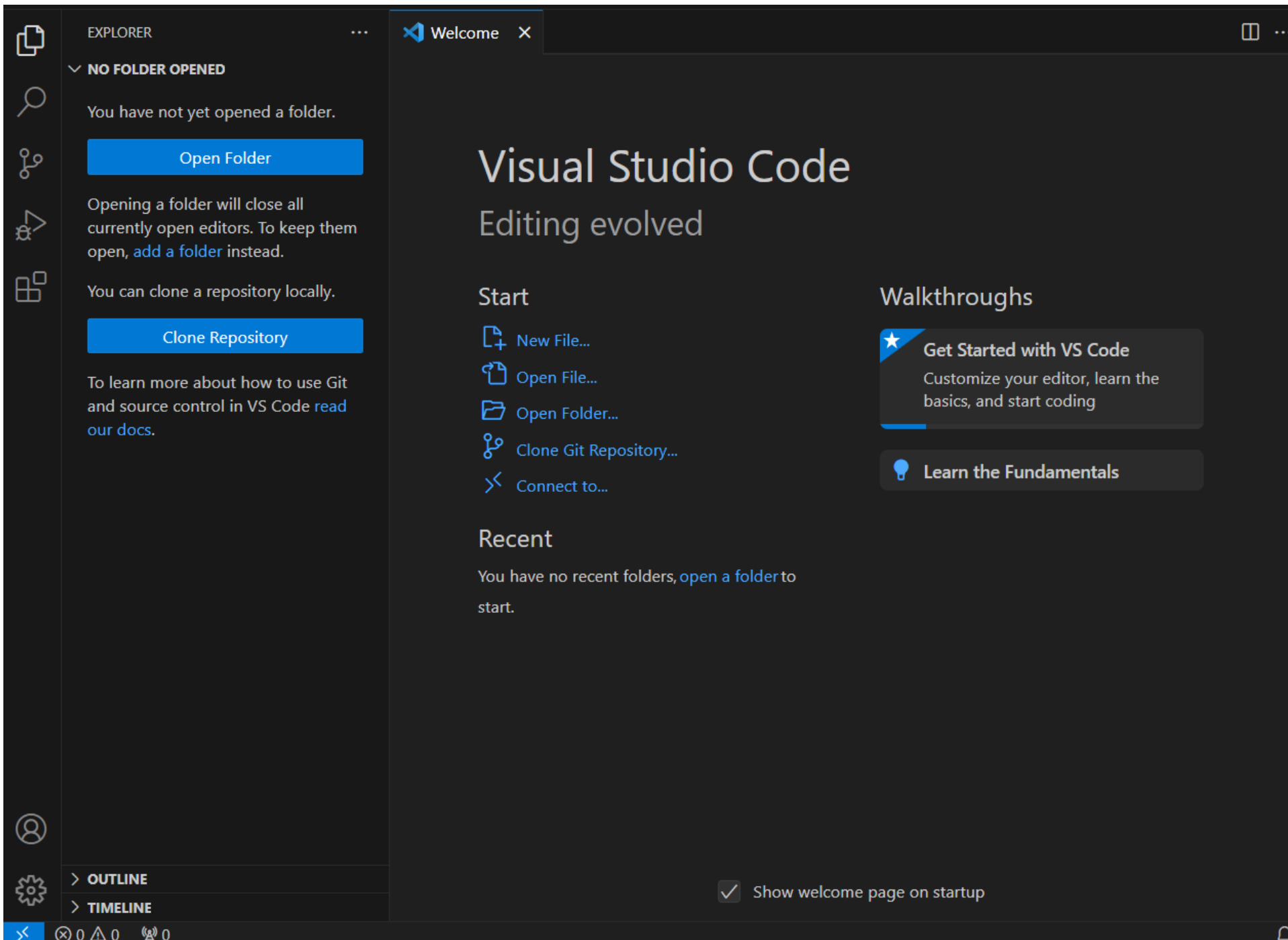
Watch videos


Getting Started

Visual Studio Code is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, macOS and Linux. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages and runtimes (such as C++, C#, Java, Python, PHP, Go, .NET). Begin your journey with VS Code with these [introductory videos](#).

Visual Studio Code in Action


```
4 var server = express();
5 server.use(bodyParser.json);
6
7 server.get
8   get (property) Application.get: ((name: string)...
9   getMaxListeners
10  arguments
```



FileEditSelectionView...<=>Search

EXTENSIONS: MARKETPLACE


flutter

**Flutter**

Flutter support and debugg...
Dart Code

7.7M ★ 5


Install

**Flutter Widge...**

A set of helpful widget snip...
Alexis Villegas Torres

1.2M ★ 5


Install

**[FF] Flutter Files**

Quickly scaffold flutter bloc ...
Igor Kravchenko

442K ★ 5


Install

**Awesome Flut...**

Awesome Flutter Snippets is...
Neevash Ramdial ...

472K ★ 5


Install

**Flutter Tree**

Extension for Flutter to buil...
Marcelo Velasquez

369K ★ 5


Install

**Flutter Color**

This plugin help you to easil...
Nilesh Chavan

314K ★ 4.5


Install

**Flutter Intl**

Flutter localization binding f...
Localizely

299K ★ 5


Install

**Flutter Helpers**

Helper utilities for flutter pr...
Akshar Patel

242K ★ 5

Install

**flutter-stylizer**

Flutter Stylizer organizes yo...
amlewis-vscode

172K ★ 4.5

Install

Welcome

Visual Studio Code

Editing evolved

Start

New File...

Open File...

Open Folder...

Clone Git Repository...

Connect to...

Recent

You have no recent folders, [open a folder](#) to start.

☒ Show welcome page on startup

Walkthroughs

★

Get Started with VS Code

Customize your editor, learn the basics, and start coding


💡

Learn the Fundamentals

<>0000

Uygulama oluşturma

Cd C:\Users\TOPKAPI\Desktop\tu_flutter_projects

 Windows PowerShell

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\TOPKAPI> cd C:\Users\TOPKAPI\Desktop\tu_flutter_projects
PS C:\Users\TOPKAPI\Desktop\tu_flutter_projects> flutter create uygulama_1
Creating project uygulama_1...
Resolving dependencies in uygulama_1... (3.0s)
Got dependencies in uygulama_1.
Wrote 129 files.

All done!
You can find general documentation for Flutter at: https://docs.flutter.dev/
Detailed API documentation is available at: https://api.flutter.dev/
If you prefer video documentation, consider: https://www.youtube.com/c/flutterdev

In order to run your application, type:

  $ cd uygulama_1
  $ flutter run

Your application code is in uygulama_1\lib\main.dart.

PS C:\Users\TOPKAPI\Desktop\tu_flutter_projects>
```

Oluşturduğumuz ilk uygulamayı VS Code'da açtık.