

# **Desenvolvimento de Software para Internet**

*DSWI – aula 00*

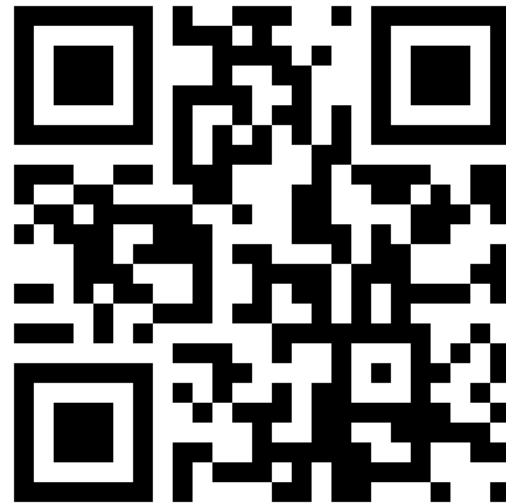
Prof<sup>a</sup>. Aparecida F. Castello Rosa

Prof<sup>a</sup>. Cida

E-mail: [aparecida.rosa@docente.unip.br](mailto:aparecida.rosa@docente.unip.br)

- Link para baixar o material de apoio das aulas de DSWI

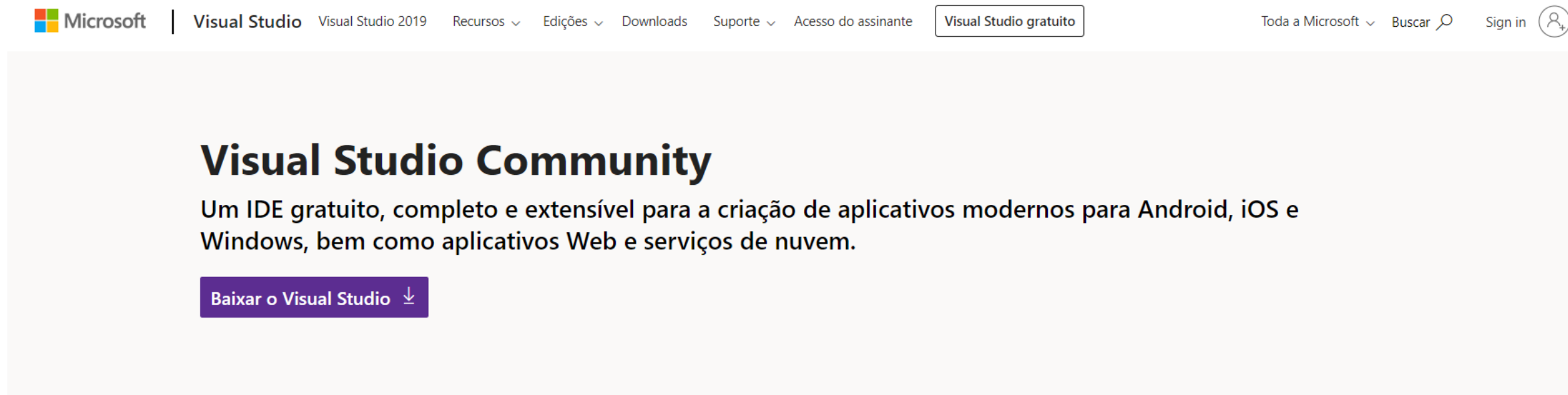
<http://tiny.cc/7d1nsz>



- Conceito de desenvolvimento de aplicativos para web utilizando HTML e ASP.NET.
- Utilização do ADO.NET. AJAX. MVC. XML.
- ASP.NET e formulários Windows.

- Apresentar aos alunos conceitos básicos do desenvolvimento de aplicações web.
- Apresentar a linguagem ASP.NET.
- Capacitar os alunos a implementarem programas utilizando a linguagem ASP.NET.

- <https://visualstudio.microsoft.com/pt-br/vs/community/>



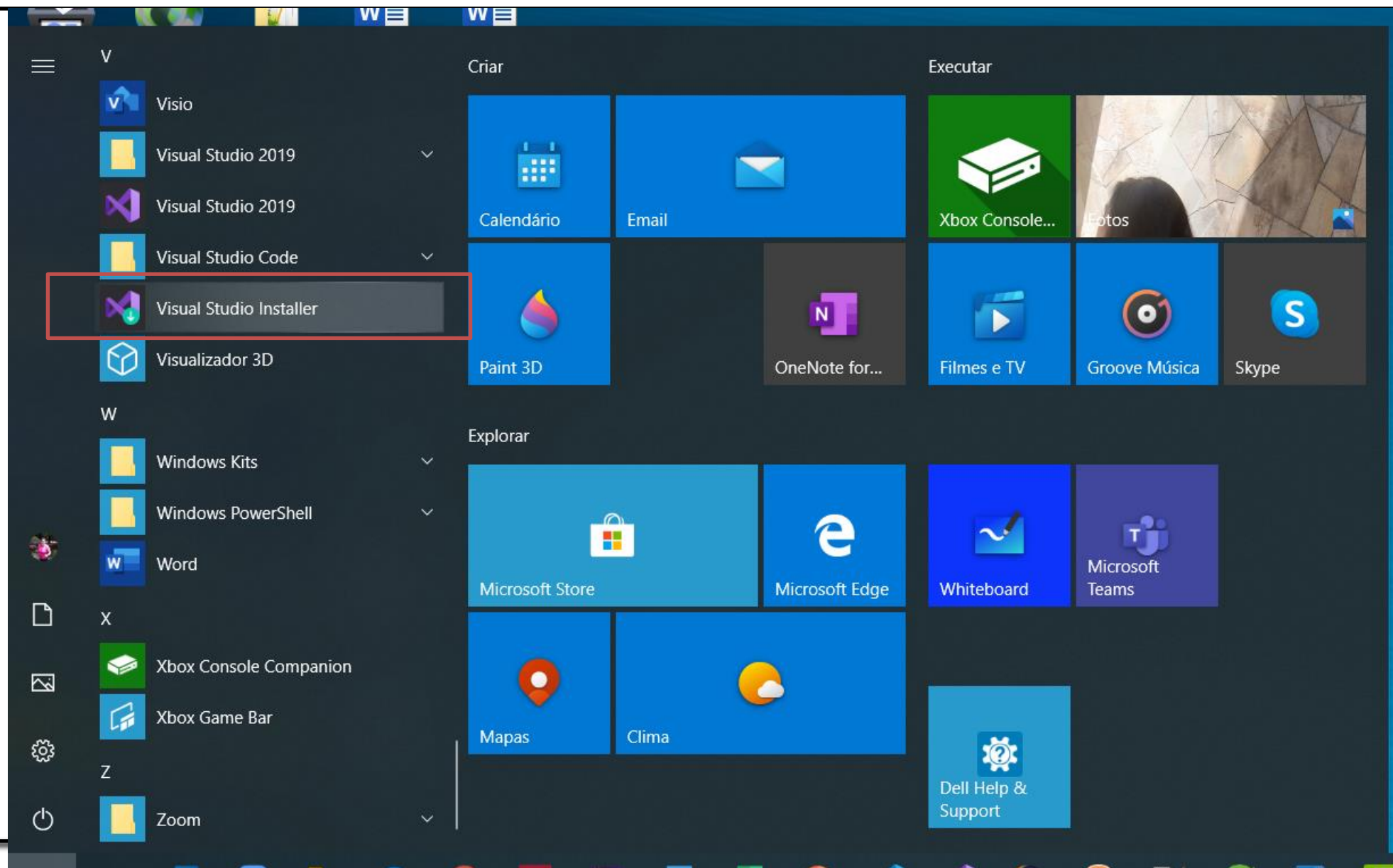
The screenshot shows the top navigation bar of the Visual Studio website. It includes the Microsoft logo, a vertical separator, and links for Visual Studio, Visual Studio 2019, Recursos, Edições, Downloads, Suporte, and Acesso do assinante. A button for 'Visual Studio gratuito' is also present. On the right, there are links for 'Toda a Microsoft', a search icon, 'Sign in', and a user profile icon.

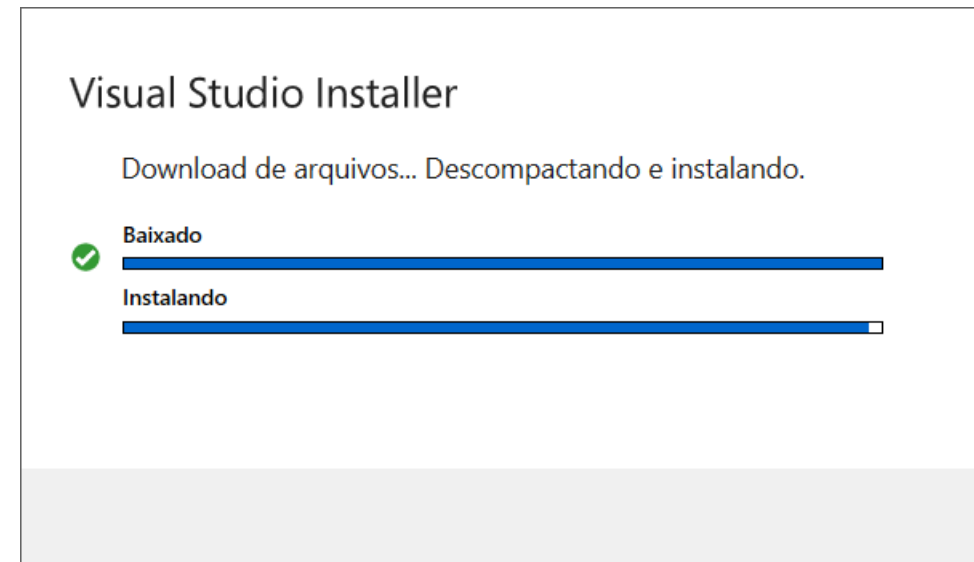
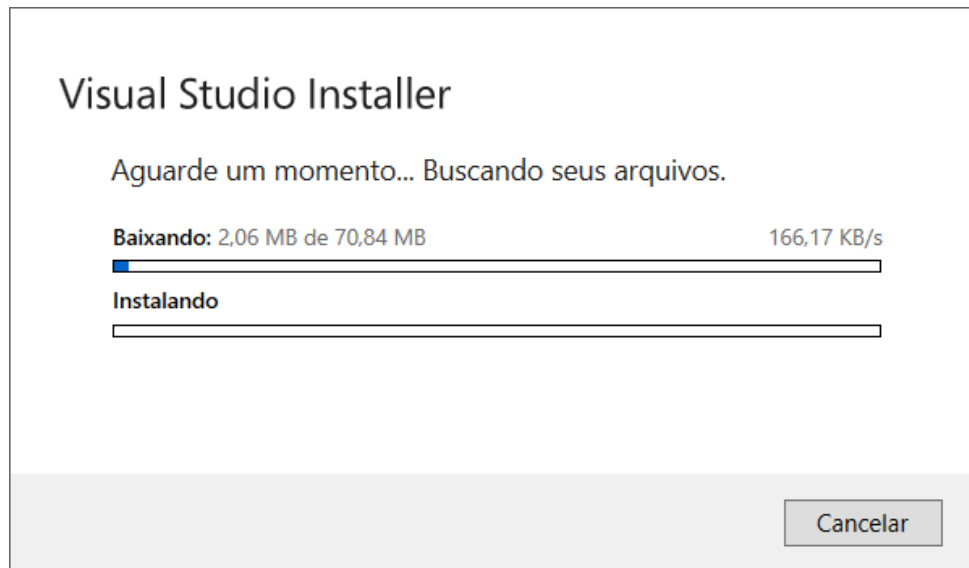
# Visual Studio Community

Um IDE gratuito, completo e extensível para a criação de aplicativos modernos para Android, iOS e Windows, bem como aplicativos Web e serviços de nuvem.

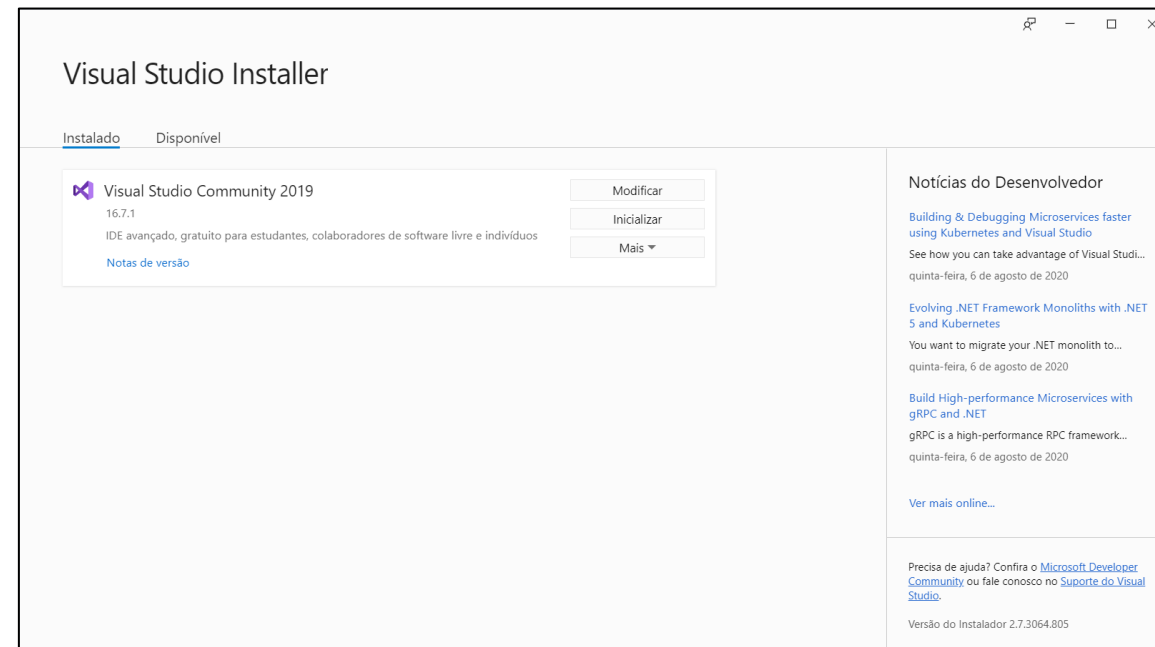
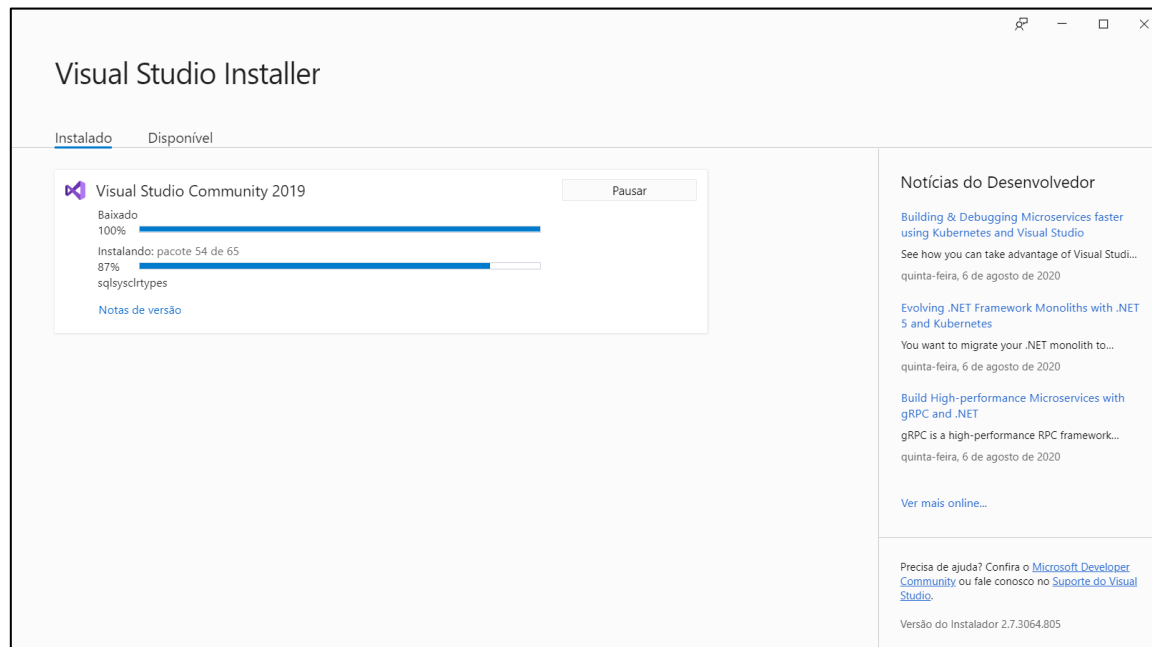
[Baixar o Visual Studio](#) ↓

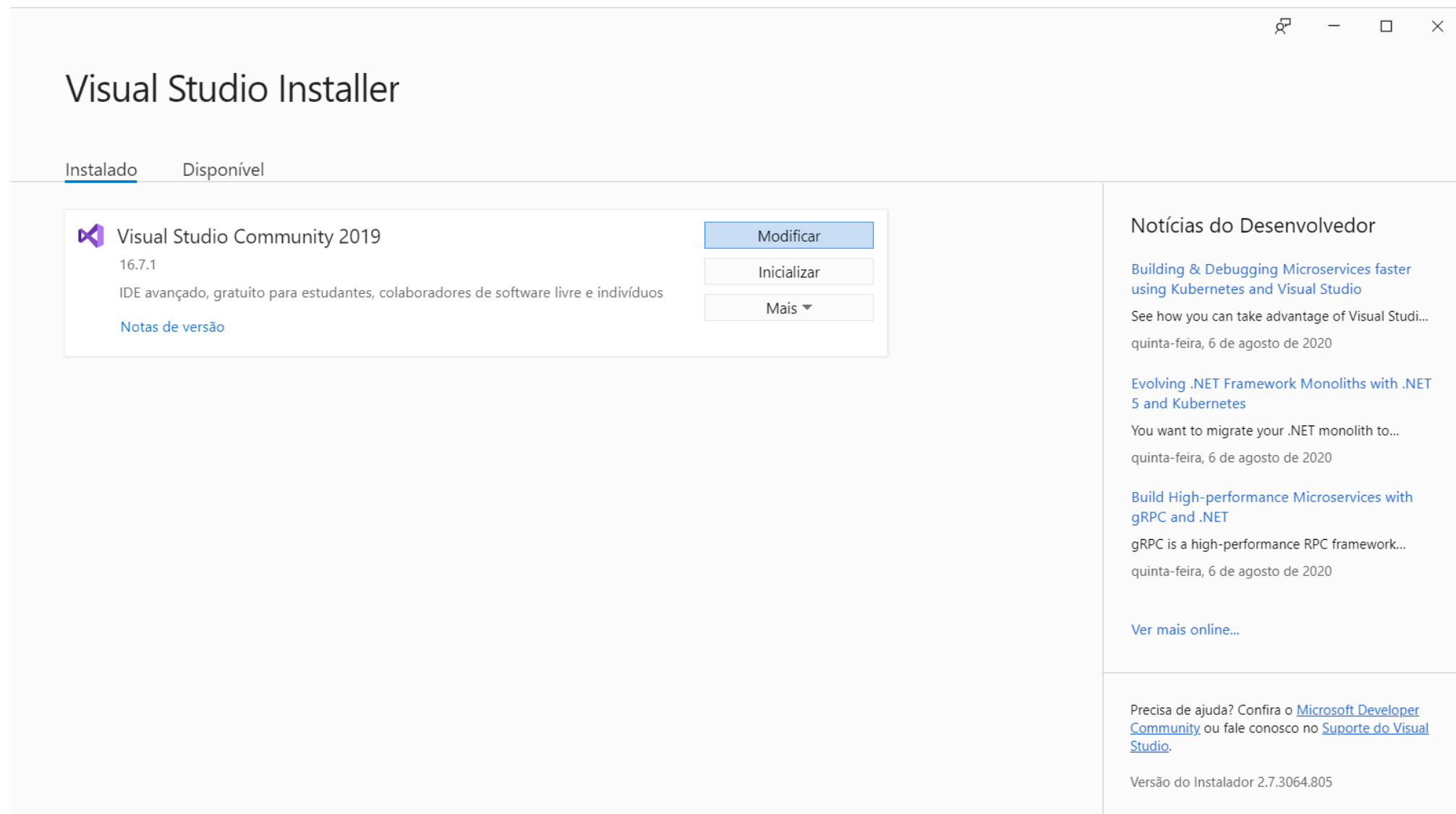
Tudo de que você precisa em um só lugar











Modificando – Visual Studio Community 2019 – 16.5.4

## Cargas de trabalho

## Componentes individuais

## Pacotes de idiomas

## Locais de instalação

## Web e Nuvem (4)



## ASP.NET e desenvolvimento Web

Crie aplicativos Web usando ASP.NET Core, ASP.NET, HTML/JavaScript e Contêineres, incluindo suporte a Docker.



## Desenvolvimento Python

Edição, depuração, desenvolvimento interativo e controle do código-fonte para Python.



## Desenvolvimento para Azure

SDKs do Azure, ferramentas e projetos para desenvolver aplicativos na nuvem e criar recursos usando o .NET Core ...



## Desenvolvimento em node.js

Crie aplicativos de rede escalonáveis usando Node.js, um tempo de execução do JavaScript conduzido por evento...



## Área de trabalho e Dispositivos móveis (5)



## Desenvolvimento para desktop com .NET

Crie aplicativos do WPF, do Windows Forms e de console usando C#, Visual Basic e F# com o .NET Core e o .NET...



## Desenvolvimento para desktop com C++

Crie aplicativos C++ modernos para Windows usando as ferramentas de sua escolha, incluindo MSVC, Clang, CMake...



## Desenvolvimento com a Plataforma Universal do Windows

Crie aplicativos para a Plataforma Universal do Windows...



## Desenvolvimento mobile com .NET

Crie aplicativos multiplataforma para iOS, Android ou Windows usando Xamarin.



## Desenvolvimento Mobile com C++

Crie aplicativos multiplataforma para iOS, Android ou Windows usando C++.



## Local

C:\Program Files (x86)\Microsoft Visual Studio\2019\Community

## Detalhes da instalação

- > Editor de núcleo do Visual Studio
- > ASP.NET e desenvolvimento Web
- > Desenvolvimento para desktop com .NET
- > Desenvolvimento com a Plataforma Universal d...
- > Processamento e armazenamentos de dados
- ✓ Componentes individuais
  - ✓ Live Share
  - ✓ Pacote de direcionamento do .NET Framework 4.6.2
  - ✓ Pacote de direcionamento do .NET Framework 4.7
  - ✓ Pacote de direcionamento do .NET Framework 4.7.1
  - ✓ Pacote de direcionamento do .NET Framework 4.8
  - ✓ SDK do .NET Framework 4.6.1
  - ✓ SDK do .NET Framework 4.6.2
  - ✓ SDK do .NET Framework 4.7
  - ✓ SDK do .NET Framework 4.7.1
  - ✓ SDK do .NET Framework 4.7.2

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Espaço total necessário 38 MB

Instalar durante o download

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## Cargas de trabalho

## Componentes individuais

## Pacotes de idiomas

## Locais de instalação



## Desenvolvimento Mobile com C++

Crie aplicativos multiplataforma para iOS, Android ou Windows usando C++.



## Jogos (2)



## Desenvolvimento de jogos com Unity

Crie jogos em 2D e 3D com o Unity, um poderoso ambiente de desenvolvimento multiplataforma.



## Desenvolvimento de jogos com C++

Use todo o poder do C++ para criar jogos profissionais desenvolvidos por DirectX, Unreal ou Cocos2d.



## Outros conjuntos de ferramentas (6)



## Processamento e armazenamentos de dados

Conecte-se, desenvolva e teste as soluções de dados usando SQL Server, Azure Data Lake ou Hadoop.



## Aplicativos de ciência de dados e análise

Linguagens e ferramentas para criação de aplicativos de ciência de dados, incluindo Python e F#.



## Desenvolvimento de extensão do Visual Studio

Crie suplementos e extensões para Visual Studio, incluindo novos comandos, analisadores de código e janelas de...



## Desenvolvimento para Office/SharePoint

Crie complementos do Office e do SharePoint, soluções do SharePoint e complementos do VSTO usando C#, VB e...



## Desenvolvimento para Linux com C++

Crie e depure aplicativos em execução em um ambiente Linux.



## Desenvolvimento multiplataforma com .NET Core

Crie aplicativos multiplataforma usando .NET Core, ASP.NET Core, HTML/JavaScript e contêineres, incluindo suporte a...



## Detalhes da instalação

- > Editor de núcleo do Visual Studio
- > ASP.NET e desenvolvimento Web
- > Desenvolvimento para desktop com .NET
- > Desenvolvimento com a Plataforma Universal d...
- > Processamento e armazenamentos de dados
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  - ✓ Pacote de direcionamento do .NET Framework 4.6.2
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  - ✓ Pacote de direcionamento do .NET Framework 4.7.1
  - ✓ Pacote de direcionamento do .NET Framework 4.8
  - ✓ SDK do .NET Framework 4.6.1
  - ✓ SDK do .NET Framework 4.6.2
  - ✓ SDK do .NET Framework 4.7
  - ✓ SDK do .NET Framework 4.7.1
  - ✓ SDK do .NET Framework 4.7.2

## Local

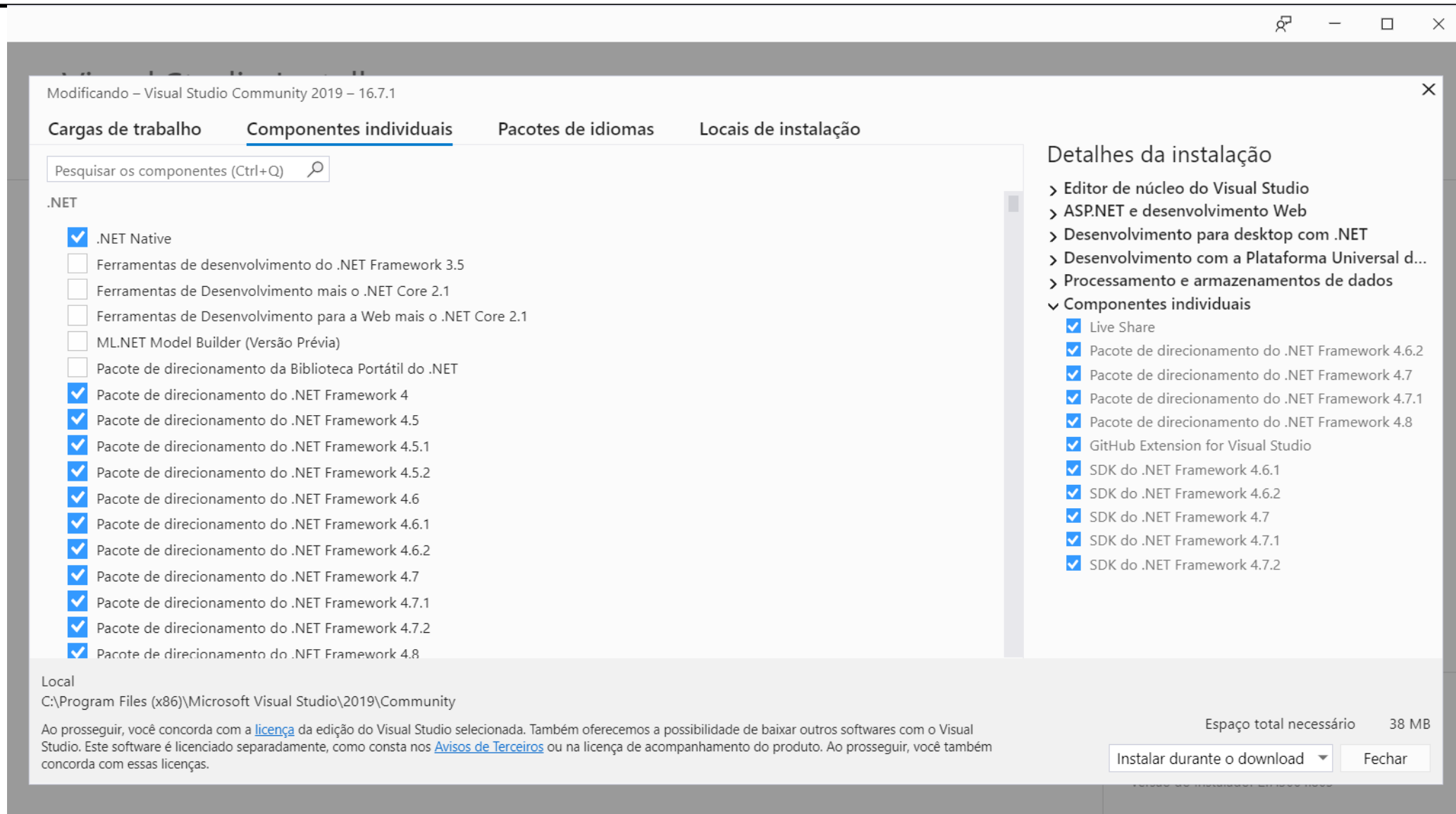
C:\Program Files (x86)\Microsoft Visual Studio\2019\Community

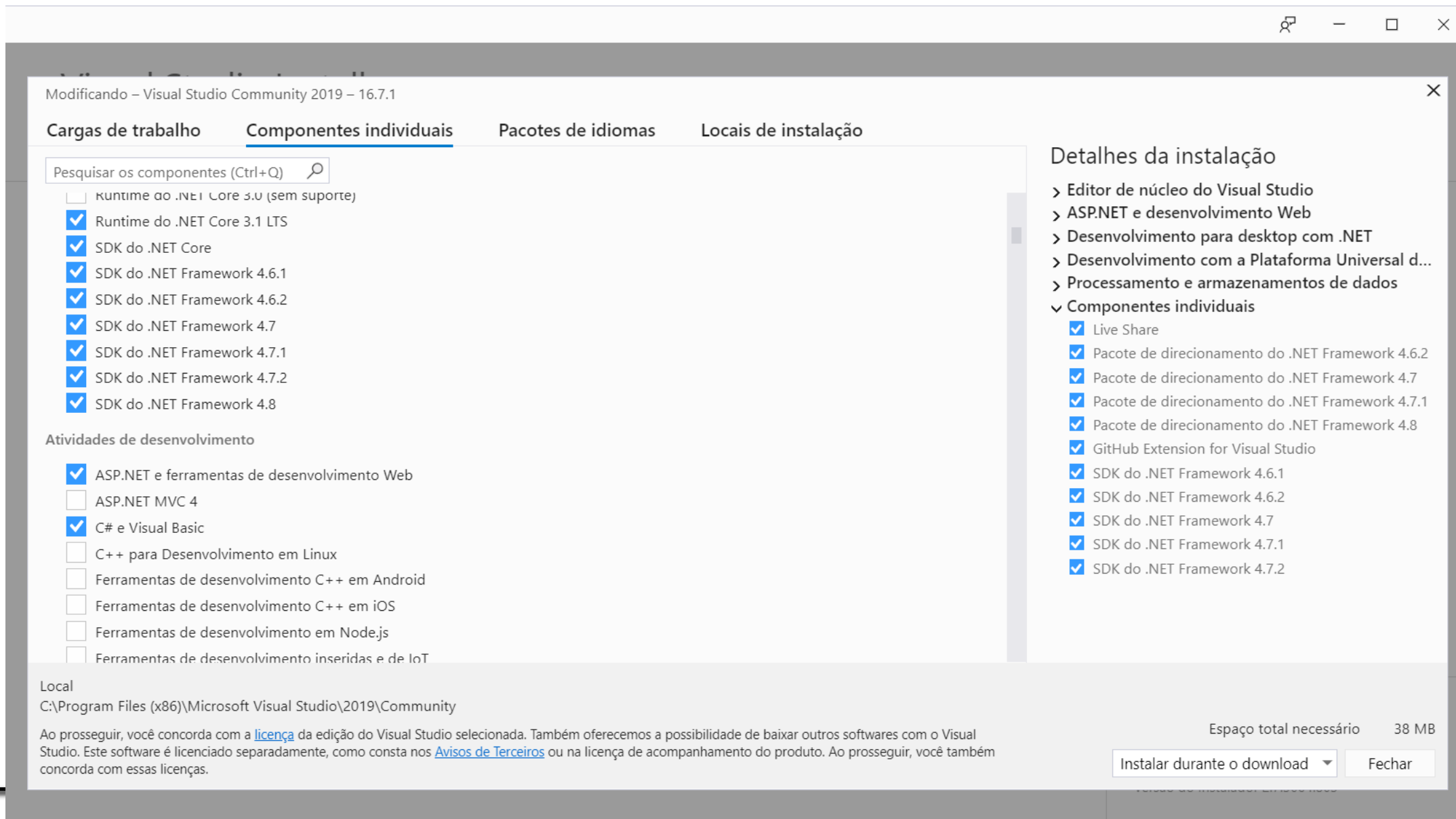
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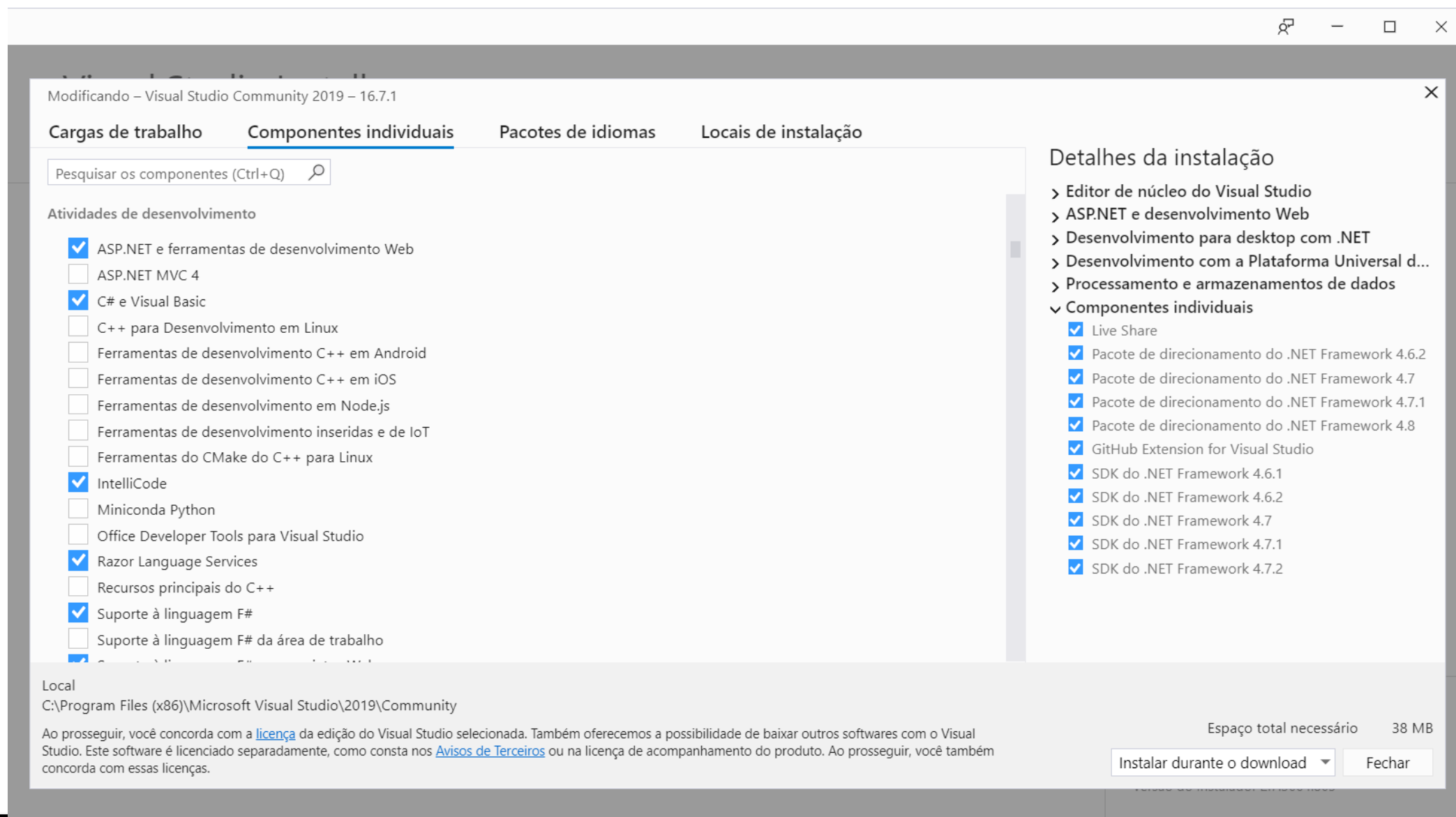
Espaço total necessário 38 MB

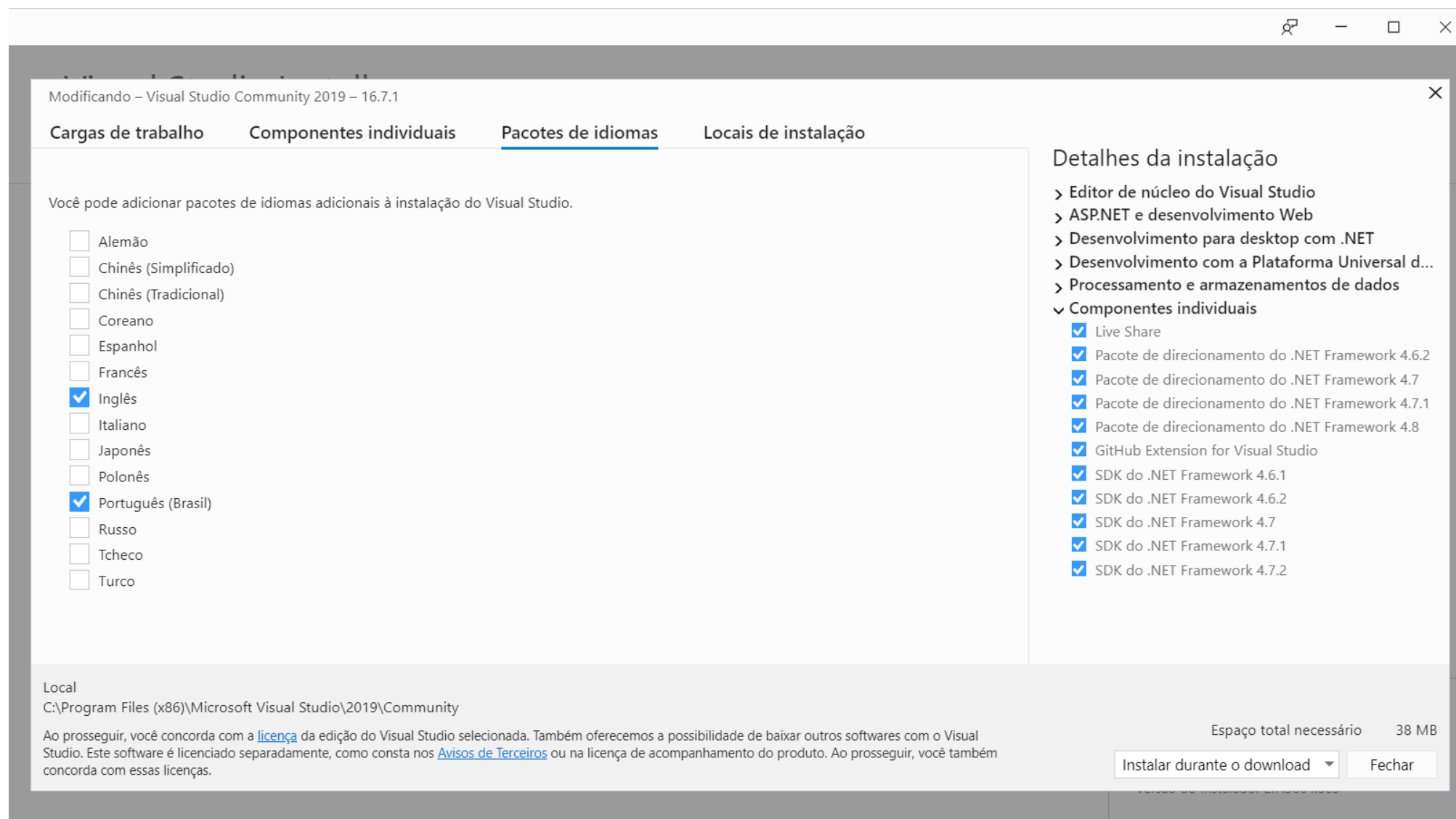
Instalar durante o download

Modificar











- <https://code.visualstudio.com/>

The image shows the Visual Studio Code website on the left and a screenshot of the Visual Studio Code application interface on the right.

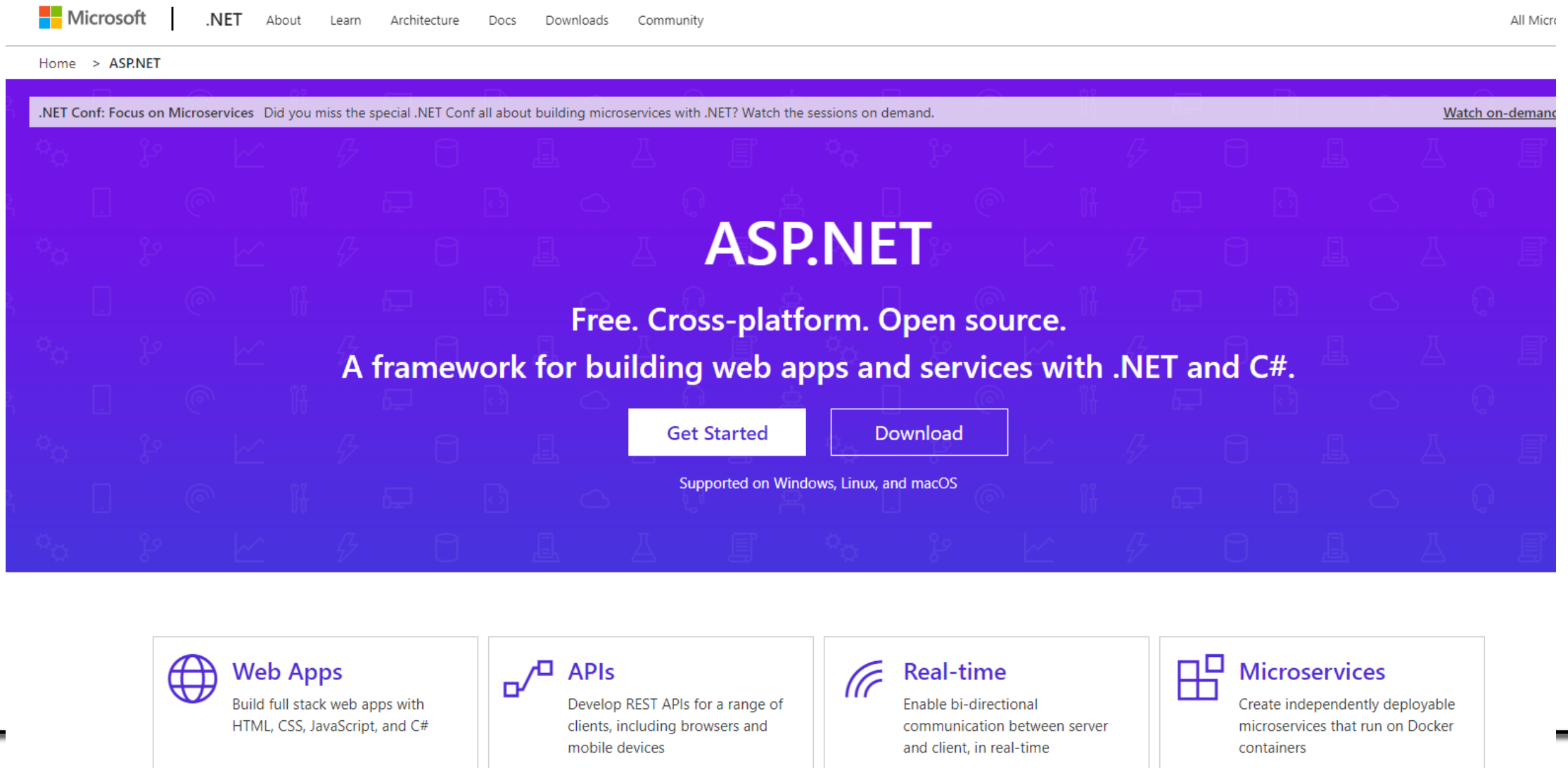
**Visual Studio Code Website:**

- Visual Studio Code Docs Updates Blog API Extensions FAQ
- Search Docs
- Download
- Version 1.47 is now available! Read about the new features and fixes from June.
- Code editing. Redefined.
- Free. Built on open source. Runs everywhere.
- Download for Windows Stable Build
- Other platforms and Insiders Edition
- By using VS Code, you agree to its license and privacy statement.

**Visual Studio Code Interface Screenshot:**

- File Edit Selection View Go Debug Terminal Help
- EXTENSIONS: MARKETPLACE
- @sort:installs
- Python 2019.6.24221 54.9M 4.5  
Linting, Debugging (multi-threaded, ...  
Microsoft Install
- GitLens — Git sup... 9.8.5 23.1M 5  
Supercharge the Git capabilities buil...  
Eric Amodio Install
- C/C++ 0.24.0 23M 3.5  
C/C++ IntelliSense, debugging, and ...  
Microsoft Install
- ESLint 1.9.0 21.9M 4.5  
Integrates ESLint JavaScript into VS ...  
Dirk Baeumer Install
- Debugger for Ch... 4.11.6 20.6M 4  
Debug your JavaScript code in the C...  
Microsoft Install
- Language Supp... 0.47.0 18.7M 4.5  
Java Linting, Intellisense, formatting, ...  
Red Hat Install
- JS App.js JS index.js JS serviceWorker.js
- src > JS serviceWorker.js > register > window.addEventListener('load') callback
- 39 checkValidServiceWorker(swUrl, config);
- 40
- 41 // Add some additional logging to localhost, p...
- 42 // service worker/PWA documentation.
- 43 navigator.serviceWorker.ready.then(() => {
- 44
- 45 product
- 46 productSub
- 47 removeSiteSpecificTrackingException
- 48 removeWebWideTrackingException
- 49 requestMediaKeySystemAccess
- 50 sendBeacon
- 51 serviceWorker (property) Navigator.serviceWorke... ①
- 52 storage
- 53 storeSiteSpecificTrackingException
- 54 storeWebWideTrackingException
- 55 } userAgent
- 56 } vendor
- 57 function registerValidSW(swUrl, config) {
- 58 navigator.serviceWorker
- 59 .register(swUrl)

- <https://dotnet.microsoft.com/apps/aspnet>



The screenshot shows the ASP.NET landing page. At the top is the Microsoft logo and a navigation menu with links for .NET, About, Learn, Architecture, Docs, Downloads, and Community. Below the navigation is a breadcrumb trail: Home > ASP.NET. A purple banner at the top of the main content area contains the text ".NET Conf: Focus on Microservices" and a link to "Watch on-demand". The main content area has a blue background with a pattern of white icons. The text "ASP.NET" is prominently displayed in the center, followed by "Free. Cross-platform. Open source." and "A framework for building web apps and services with .NET and C#." Below this text are two buttons: "Get Started" and "Download". Underneath the buttons, it says "Supported on Windows, Linux, and macOS". At the bottom of the page, there are four white boxes with blue icons and text describing the capabilities of ASP.NET: Web Apps, APIs, Real-time, and Microservices.

Microsoft | .NET About Learn Architecture Docs Downloads Community All Micro

Home > ASP.NET

.NET Conf: Focus on Microservices Did you miss the special .NET Conf all about building microservices with .NET? Watch the sessions on demand. [Watch on-demand](#)


# ASP.NET


Free. Cross-platform. Open source.


A framework for building web apps and services with .NET and C#.


[Get Started](#) [Download](#)

Supported on Windows, Linux, and macOS

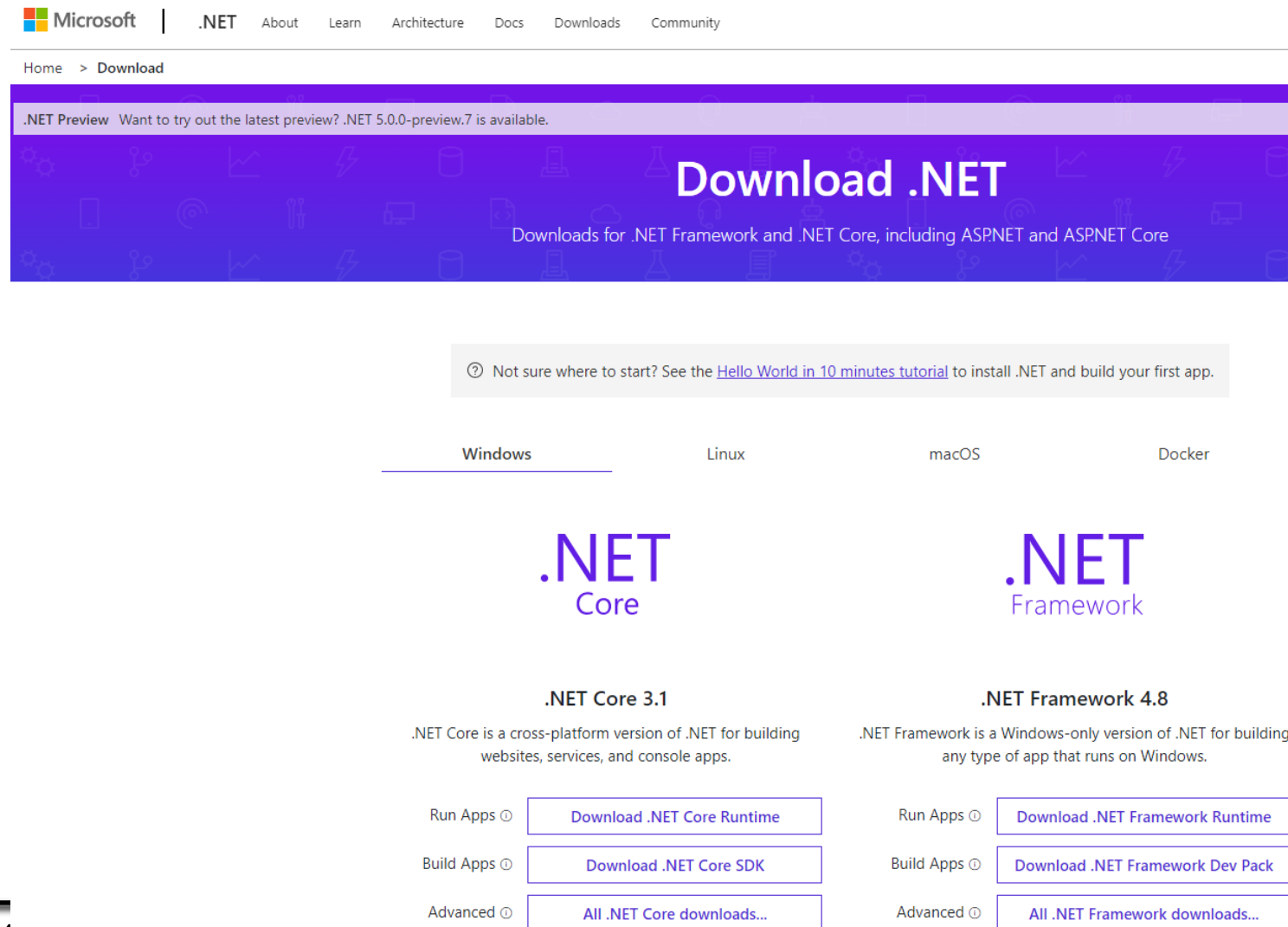
**Web Apps**  
Build full stack web apps with HTML, CSS, JavaScript, and C#

**APIs**  
Develop REST APIs for a range of clients, including browsers and mobile devices

**Real-time**  
Enable bi-directional communication between server and client, in real-time

**Microservices**  
Create independently deployable microservices that run on Docker containers

- <https://dotnet.microsoft.com/download>



The screenshot shows the Microsoft .NET download page. At the top, there's a navigation bar with the Microsoft logo and links for .NET, About, Learn, Architecture, Docs, Downloads, and Community. Below this, a breadcrumb trail shows 'Home > Download'. A purple banner with a pattern of icons contains the text 'Download .NET' and 'Downloads for .NET Framework and .NET Core, including ASP.NET and ASP.NET Core'. A light gray box below the banner provides a link to a tutorial: 'Not sure where to start? See the [Hello World in 10 minutes tutorial](#) to install .NET and build your first app.' The page is divided into two main sections: '.NET Core' and '.NET Framework'. The '.NET Core' section is for version 3.1 and describes it as a cross-platform version. It offers three download options: 'Run Apps' (Download .NET Core Runtime), 'Build Apps' (Download .NET Core SDK), and 'Advanced' (All .NET Core downloads...). The '.NET Framework' section is for version 4.8 and describes it as a Windows-only version. It also offers three download options: 'Run Apps' (Download .NET Framework Runtime), 'Build Apps' (Download .NET Framework Dev Pack), and 'Advanced' (All .NET Framework downloads...).

Microsoft | .NET About Learn Architecture Docs Downloads Community

Home > Download

.NET Preview Want to try out the latest preview? .NET 5.0.0-preview.7 is available.

# Download .NET

Downloads for .NET Framework and .NET Core, including ASP.NET and ASP.NET Core

Not sure where to start? See the [Hello World in 10 minutes tutorial](#) to install .NET and build your first app.

Windows Linux macOS Docker

## .NET Core

.NET Core 3.1

.NET Core is a cross-platform version of .NET for building websites, services, and console apps.

Run Apps ⓘ [Download .NET Core Runtime](#)

Build Apps ⓘ [Download .NET Core SDK](#)

Advanced ⓘ [All .NET Core downloads...](#)

## .NET Framework

.NET Framework 4.8

.NET Framework is a Windows-only version of .NET for building any type of app that runs on Windows.

Run Apps ⓘ [Download .NET Framework Runtime](#)

Build Apps ⓘ [Download .NET Framework Dev Pack](#)

Advanced ⓘ [All .NET Framework downloads...](#)

- <https://dotnet.microsoft.com/download/dotnet-core>



❓ Not sure what to download? [See recommended downloads for the latest version of .NET.](#)

Version	Status	Latest release	Latest release date	End of support
<a href="#">.NET 5.0</a>	Preview ⓘ	5.0.0-preview.7	2020-07-21	
<a href="#">.NET Core 3.1</a> (recommended)	LTS ⓘ	3.1.6	2020-07-14	2022-12-03
<a href="#">.NET Core 3.0</a>	End of life ⓘ	3.0.3	2020-02-18	2020-03-03
<a href="#">.NET Core 2.2</a>	End of life ⓘ	2.2.8	2019-11-19	2019-12-23
<a href="#">.NET Core 2.1</a>	LTS ⓘ	2.1.20	2020-07-14	2021-08-21
<a href="#">.NET Core 2.0</a>	End of life ⓘ	2.0.9	2018-07-10	2018-10-01
<a href="#">.NET Core 1.1</a>	End of life ⓘ	1.1.13	2019-05-14	2019-06-27
<a href="#">.NET Core 1.0</a>	End of life ⓘ	1.0.16	2019-05-14	2019-06-27

- <https://docs.microsoft.com/pt-br/>
- <https://docs.microsoft.com/pt-br/aspnet/core/?view=aspnetcore-3.1>
- <https://dotnet.microsoft.com/apps/aspnet>
- <https://docs.microsoft.com/pt-br/aspnet/overview>
- <https://dotnet.microsoft.com/learn/aspnet/hello-world-tutorial/intro>
- <https://channel9.msdn.com/Search?term=asp.net&lang-en=true&lang-other=true>
- [www.macoratti.net](http://www.macoratti.net)
- <https://docs.microsoft.com/pt-br/aspnet/core/introduction-to-aspnet-core?view=aspnetcore-3.1>

- <https://www.revista-programar.info/artigos/asp-net-5/>
- <https://devblogs.microsoft.com/aspnet/updates-for-asp-net-4-6-web-forms-mvc-5-web-api-2/>
- <https://devblogs.microsoft.com/aspnet/new-asp-net-features-and-fixes-in-visual-studio-2015-rc/>
- <https://en.wikipedia.org/wiki/ASP.NET>

- <https://dotnetfiddle.net/Xds08j>

- <https://html5-editor.net/>
- <https://www.w3schools.com/tryit/>



- <http://brackets.io/>
- <https://www.sublimetext.com/3>
- <https://atom.io/>

- <https://astah.net/>



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## The **power** of software **modeling**

Astah's **modeling tools** allow you to visualize the essence of your ideas and software designs. Quickly and effortlessly build diagrams that create a clear understanding among teams. Build UML, ER diagrams, Data Flow Diagrams, Flowcharts, mind maps and more in the most powerful modeling software for everyone from students to enterprise teams.



- <https://astah.net/products/free-student-license/>




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## Free Student License

Astah UML is a lightweight UML diagramming tool.  
With source code integration and a robust library of [plug-ins](#),  
Astah UML is perfect for those starting with diagramming with UML diagrams.



### Students



### Read before you apply

Students who have an academic email address are eligible to receive a **FREE license** for Astah UML.

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*We no longer accept applications with attachment files. This change had to*


Academic Email Address\*

School name\*

First name\*

Last name\*

- <http://staruml.io/>

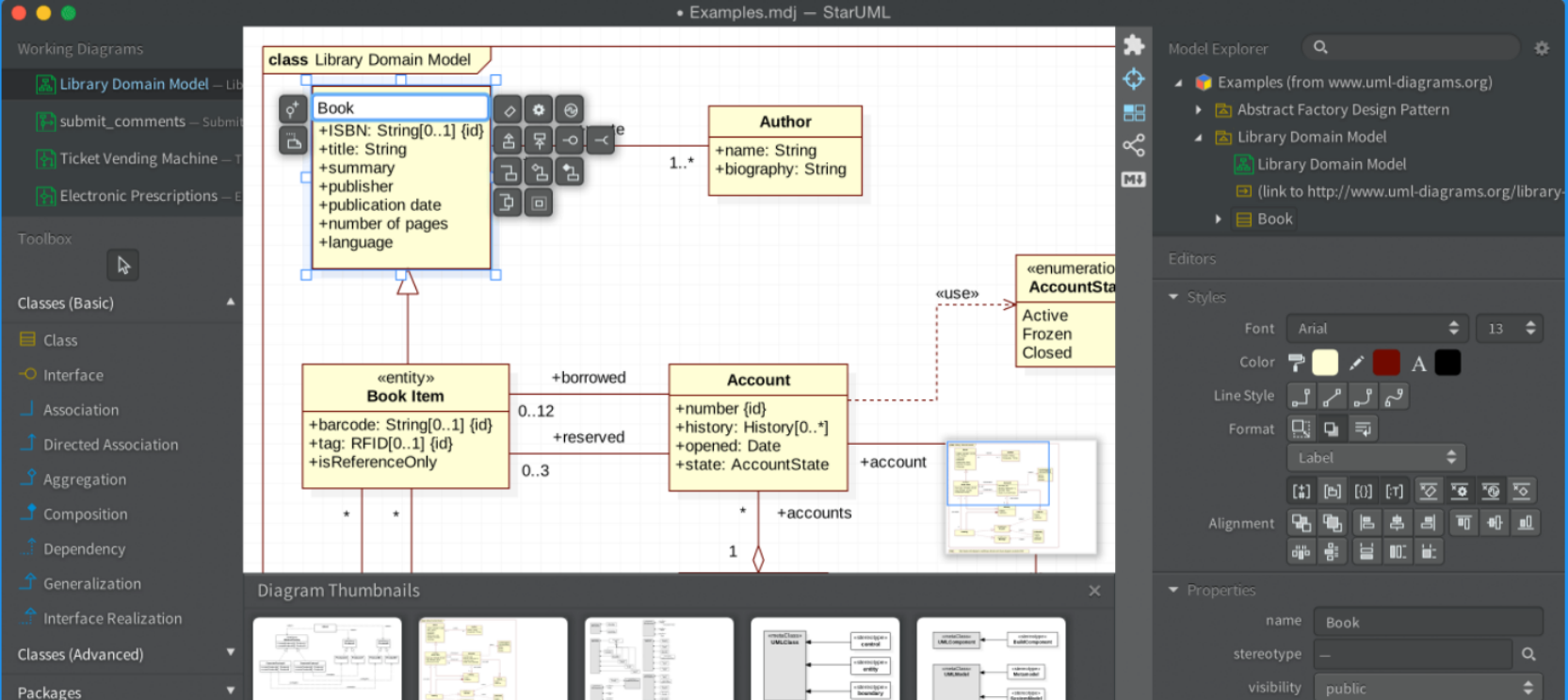
 **StarUML**

Download Buy Extensions Support Docs

A sophisticated software modeler for agile and concise modeling

[Download for Windows](#)

Current version: 3.2.2



The screenshot displays the StarUML application window titled 'Examples.mdl - StarUML'. The main canvas shows a UML class diagram for a 'Library Domain Model'. The diagram includes the following elements:

- Book Class:** Attributes include +ISBN: String[0..1] {id}, +title: String, +summary, +publisher, +publication date, +number of pages, and +language.
- Author Class:** Attributes include +name: String and +biography: String.
- Book Item Class (Entity):** Attributes include +barcode: String[0..1] {id}, +tag: RFID[0..1] {id}, and +isReferenceOnly.
- Account Class:** Attributes include +number {id}, +history: History[0..\*], +opened: Date, and +state: AccountState.
- AccountState Enumeration:** Values include Active, Frozen, and Closed.

Relationships shown in the diagram:

- Book and Author:** A 1..\* association.
- Book Item and Account:** Two associations: '+borrowed' with multiplicity 0..12 and '+reserved' with multiplicity 0..3.
- Account and AccountState:** A 1..\* association labeled '+account'.
- Book Item and Account:** A 1..\* association labeled '+accounts'.
- Account and AccountState:** A 'use' relationship indicated by a dashed arrow.

The interface also features a left sidebar with a 'Toolbox' containing various UML diagram elements (Class, Interface, Association, etc.), a 'Model Explorer' on the right showing the project structure, and a 'Properties' panel at the bottom right for configuring the selected element.

- <https://argouml-tigris-org.github.io/tigris/argouml/>

## Old site copied from Tigris

This is the old stale information copied from tigris.org. Expect a lot of links to not be working.

This used to be located at <http://argouml.tigris.org>.



## Welcome to ArgoUML

ArgoUML is the leading open source UML modeling tool and includes support for all standard UML 1.4 diagrams. It runs on any Java platform and is available in ten languages. See the [feature list](#) for more details.

ArgoUML 0.26 and 0.26.2 were downloaded over 80,000 times and are in use all over the world.

ArgoUML is distributed under the [Eclipse Public License \(EPL\) 1.0](#).



**Download  
ArgoUML 0.34  
(Windows)**

### User documentation

- Quick Guide ([html](#) | [pdf](#) | [single file html](#))
- User Manual ([html](#) | [pdf](#) | [single file html](#))
- Other [resources](#)
- [User Interface Tour](#)
- [Report a bug or request a feature](#)  
(You must be a logged in Tigris member to do this).

### Start ArgoUML Now (two methods)

#### 1. Download and install:

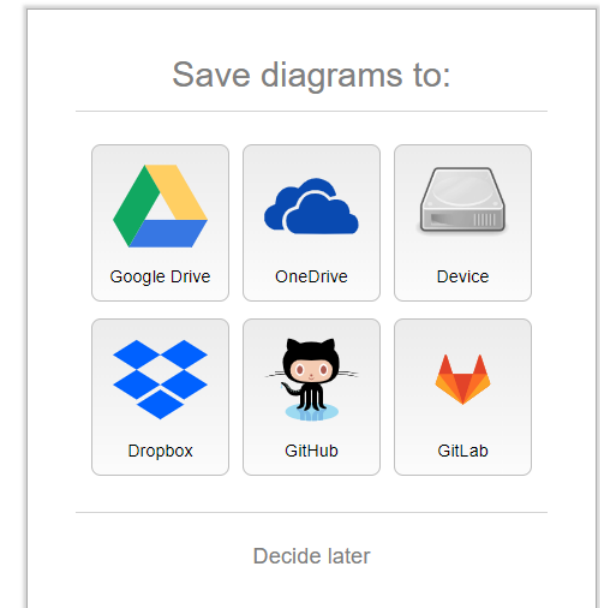
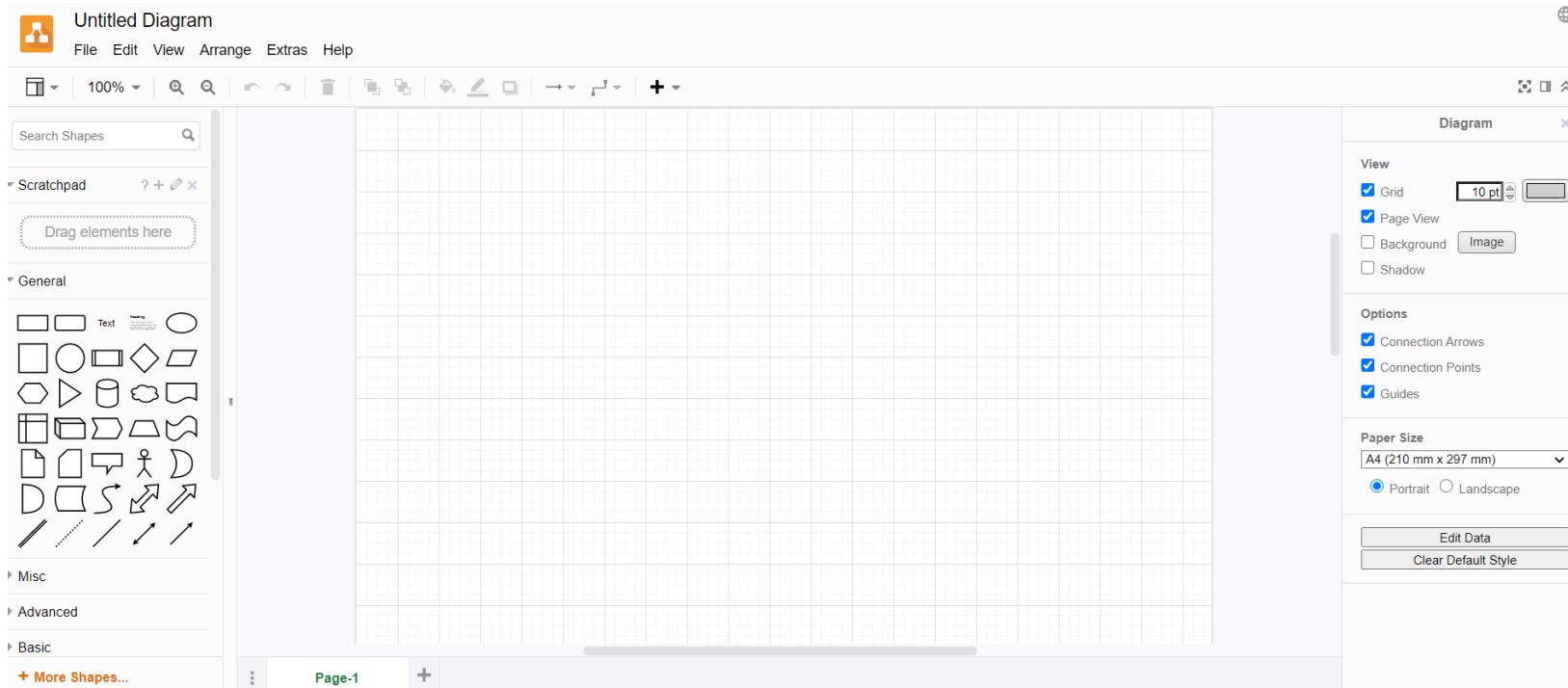
Download and install ArgoUML, using the link above.

#### 2. Launch via Java Web Start:

[Click](#) to launch the latest stable release.

If this doesn't work, try updating your Java version at [java.com](http://java.com) or reading the [Java Web Start product](#)

- <https://app.diagrams.net/>



- <https://draw-io.softonic.com.br/>



- <https://www.microsoft.com/pt-br/p/drawio-diagrams/9mvvszk43qqw?activetab=pivot:overviewtab>



- <https://www.lucidchart.com/pages/pt>



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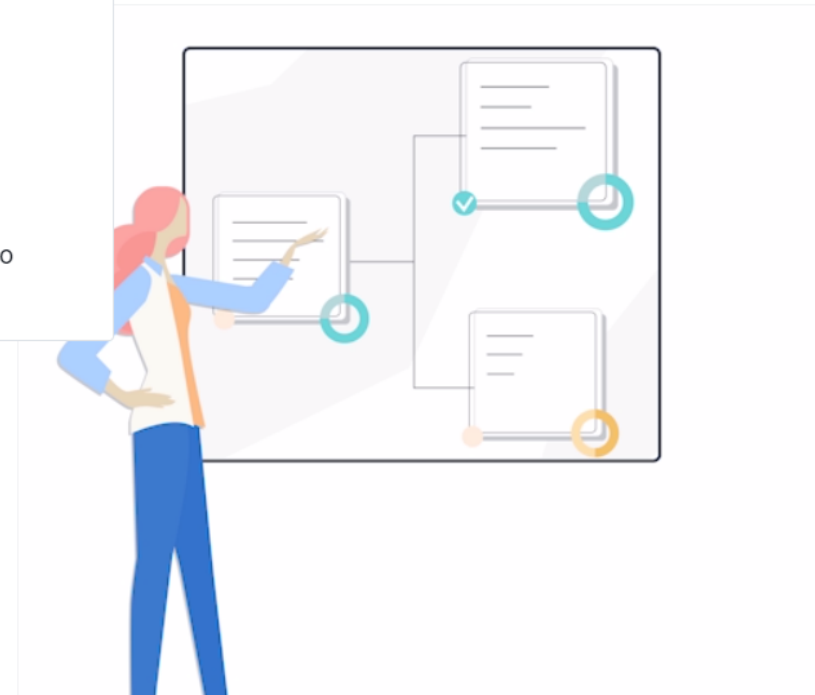
Entrar

# Visualize, entenda, resolva

O Lucidchart é uma ferramenta de trabalho visual que mescla diagramas, visualização de dados e colaboração para acelerar a compreensão e promover a inovação. Cadastre-se para uma avaliação gratuita hoje mesmo.

Cadastre-se gratuitamente

Fluxograma  
Organograma  
Mapa Conceitual  
Mapa Mental  
UML  
Diagrama ER  
Alternativa ao Visio  
Mais







Microsoft

Microsoft 365

Visio

Planos e preços ▾

Recursos ▾

Recursos ▾

# Visio

Trabalhe de forma visual.  
Diagramar ficou fácil.

Confira os planos e preços

- <https://www.ev.org.br/>



Informática  
HTML - Básico

🕒 Carga Horária: 11 hora(s)



Informática  
HTML - Avançado

🕒 Carga Horária: 6 hora(s)



Informática  
HTML e CSS na Prática

🕒 Carga Horária: 24 hora(s)