



Introdução à Programação para Sensoriamento Remoto

SER-347 – Instalando e Configurando o ambiente de Programação

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Monitor:

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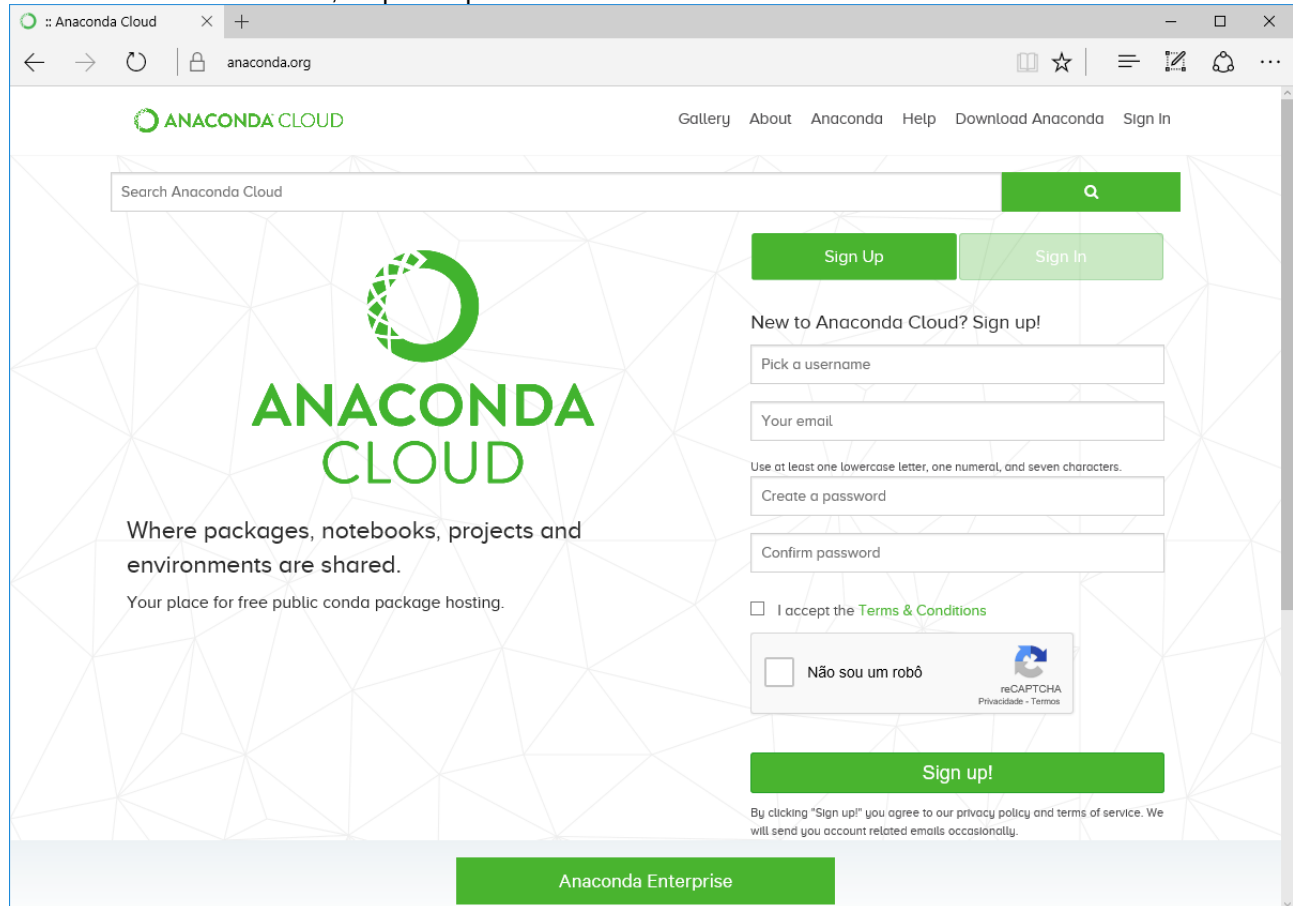


Este tutorial contém os passos necessários para a instalação (no ambiente Windows) das ferramentas que serão utilizadas durante o curso:

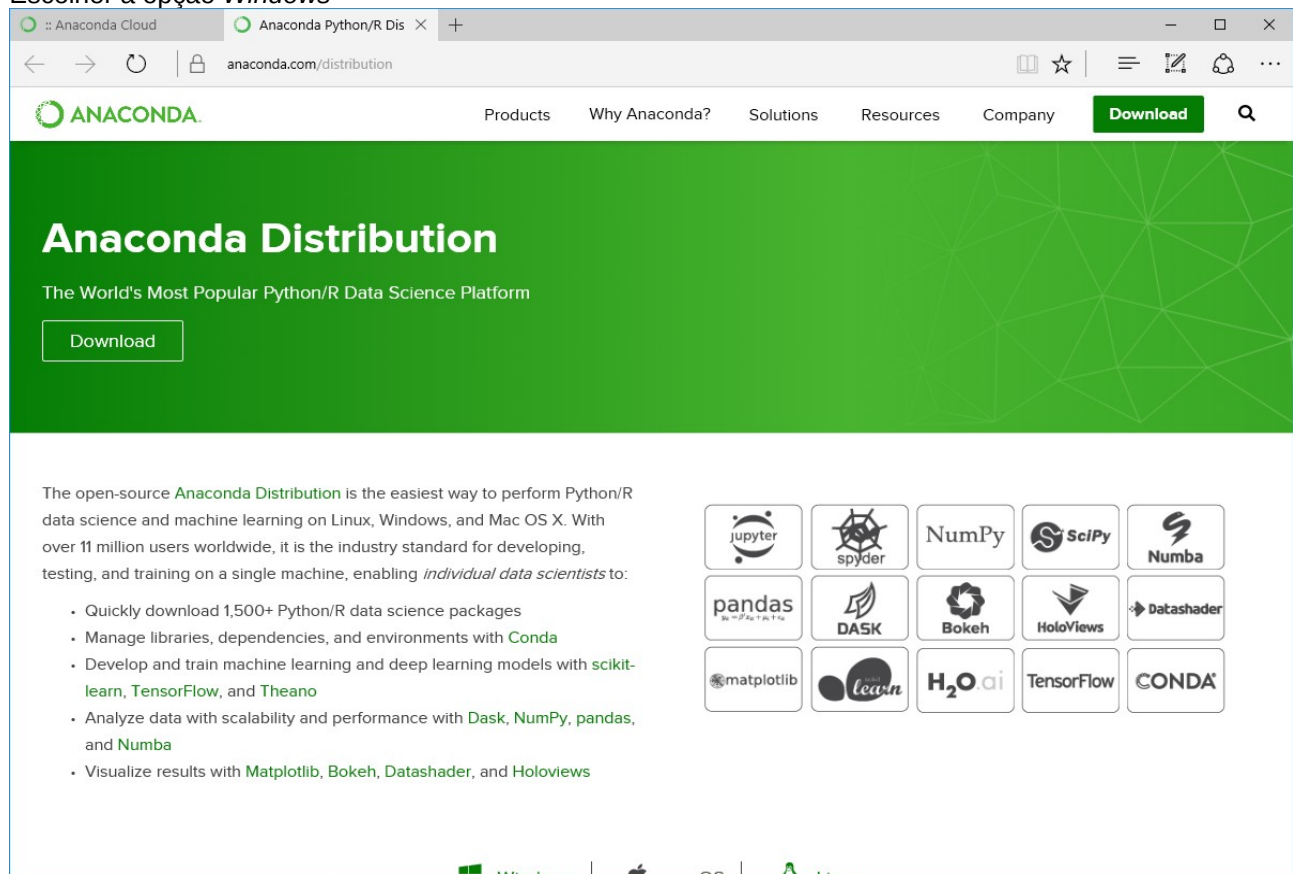
- Anaconda, versão 3-2018.12 (com Python 3.7), disponível em www.anaconda.org
- PyCharm, versão 2018.3.5, disponível em www.jetbrains.com/pycharm

Instalação do Anaconda

Entrar no site do Anaconda, e apontar para *Download Anaconda*



Escolher a opção *Windows*



Escolher a versão 64 bits, com Python 3.7

The screenshot shows the Anaconda website's download section for Windows. At the top, there are navigation links for Windows, macOS, and Linux. The main heading is "Anaconda 2018.12 for Windows Installer". Below this, there are two columns for different Python versions. The left column is for "Python 3.7 version" and the right for "Python 2.7 version". Each column has a green "Download" button and lists two options: "64-Bit Graphical Installer" and "32-Bit Graphical Installer" with their respective sizes. Below the download section, there is a "Get Started with Anaconda Distribution" section with four links: "Documentation", "Anaconda Blog", "Community Support", and "Anaconda Webinars".

Windows | macOS | Linux

Anaconda 2018.12 for Windows Installer

Python 3.7 version

[Download](#)

64-Bit Graphical Installer (614.3 MB)
32-Bit Graphical Installer (509.7 MB)

Python 2.7 version

[Download](#)

64-Bit Graphical Installer (560.6 MB)
32-Bit Graphical Installer (458.6 MB)

Get Started with Anaconda Distribution

Documentation

Installation and user guide for Anaconda Distribution 5

Anaconda Blog

News, software releases, and developer best practices

Community Support

Solutions, knowledge, and use cases from the OS community

Anaconda Webinars

Industry trends and tutorials from the AI/ML experts at Anaconda

Aguardar o término do download e executar o instalador

This screenshot is identical to the previous one, showing the Anaconda download page. However, at the bottom of the page, there is a notification bar. The notification text is "Anaconda3-2018.12-Windows-x86_64.exe download(s) concluído(s).". To the right of the text are three buttons: "Executar", "Abrir pasta", and "Exibir downloads", followed by a close button (X).

Windows | macOS | Linux

Anaconda 2018.12 for Windows Installer

Python 3.7 version

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News, software releases,

Community Support

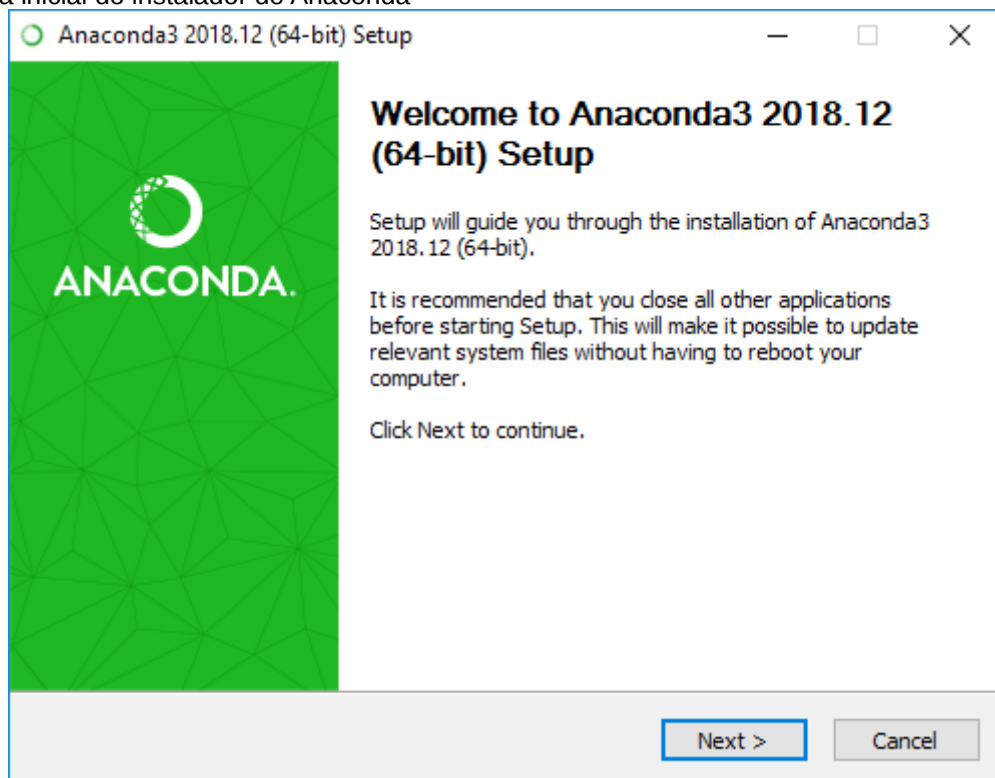
Solutions, knowledge, and

Anaconda Webinars

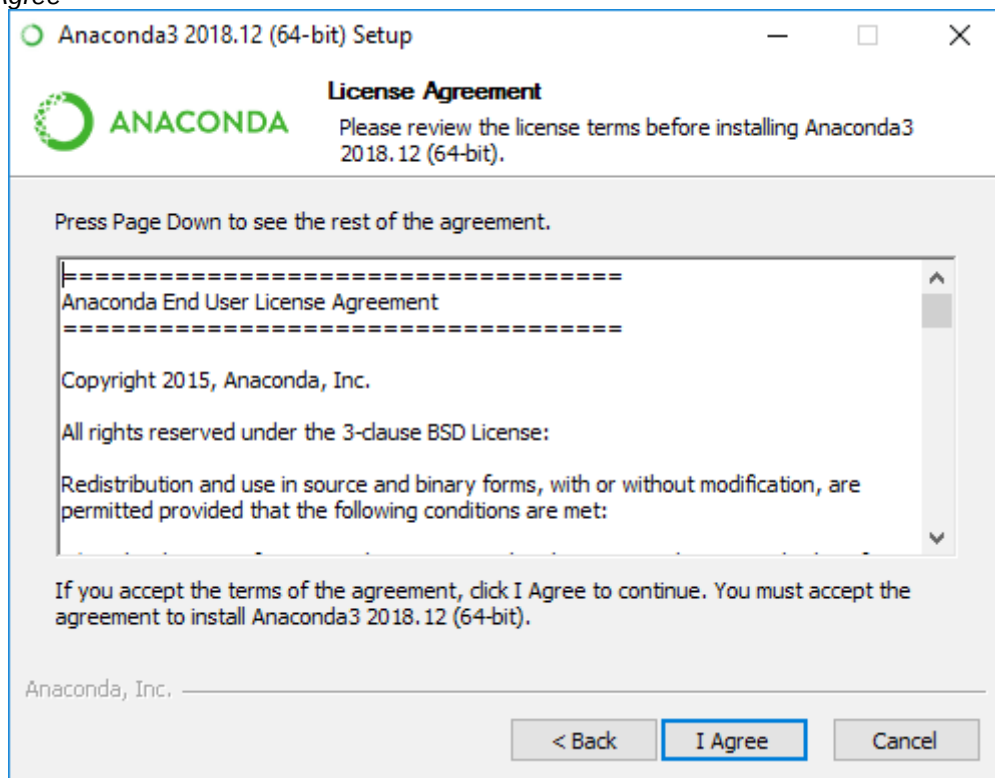
Industry trends and

Anaconda3-2018.12-Windows-x86_64.exe download(s) concluído(s). [Executar](#) [Abrir pasta](#) [Exibir downloads](#) [X](#)

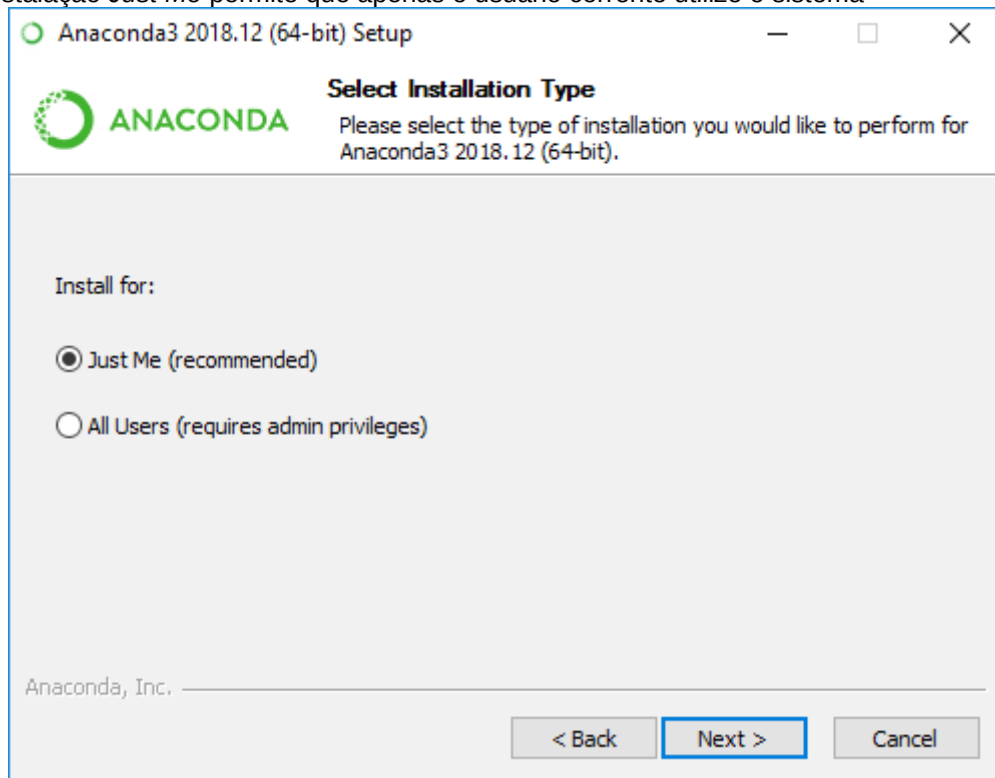
Esta é a tela inicial do instalador do Anaconda



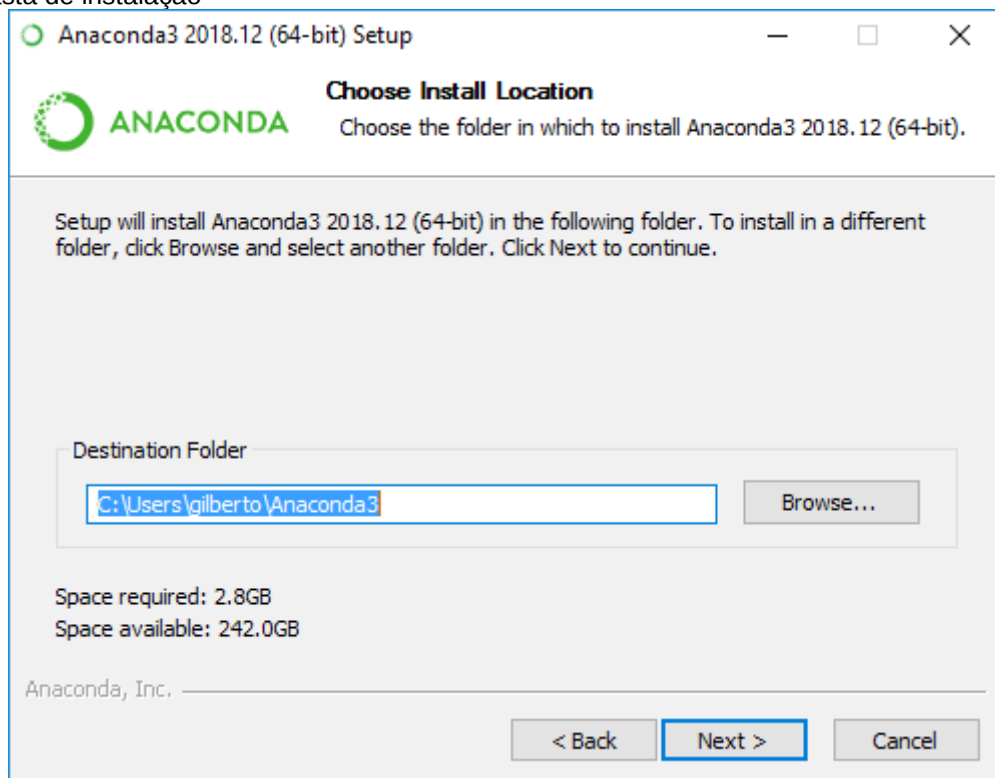
Escolher / Agree



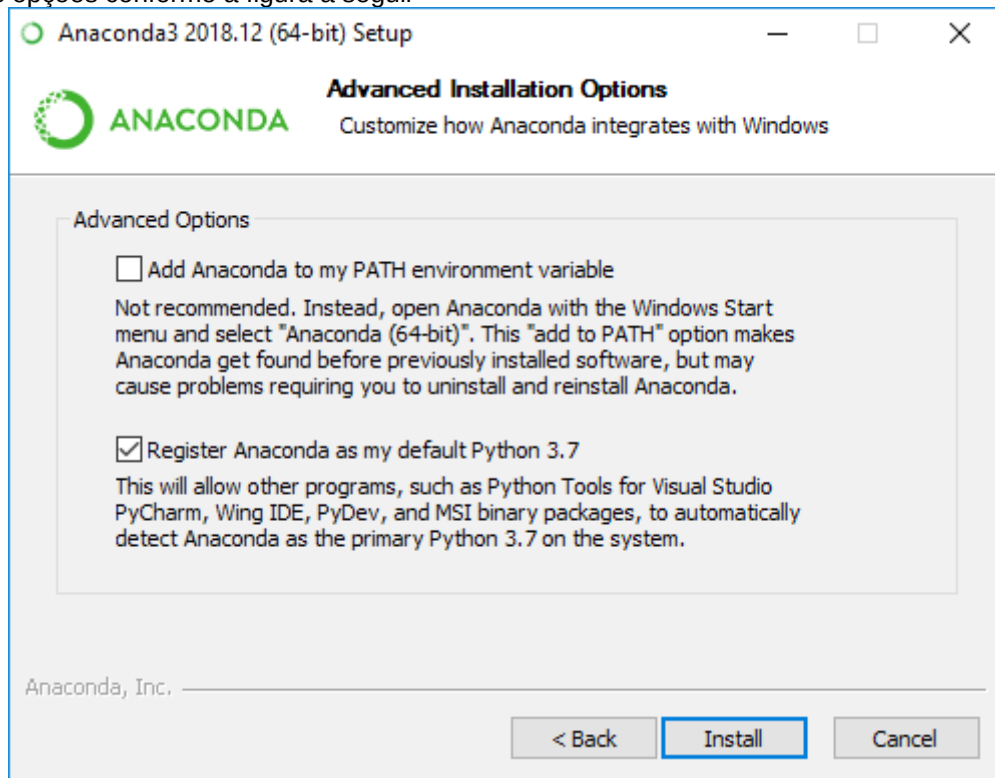
O tipo de instalação *Just Me* permite que apenas o usuário corrente utilize o sistema



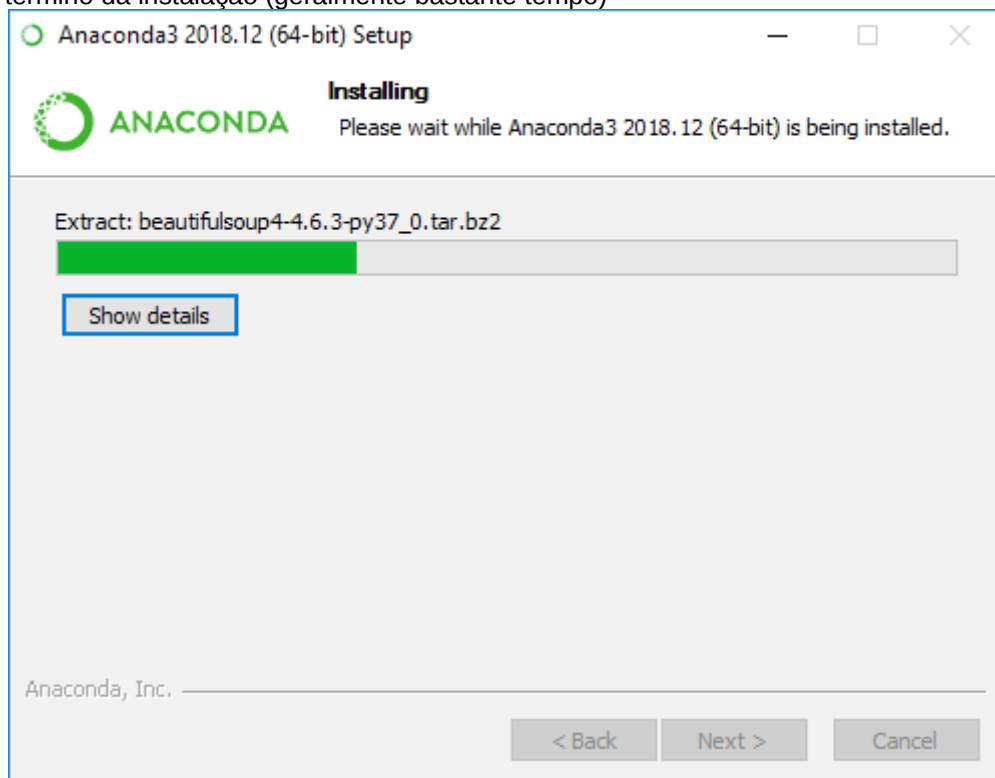
Definir a pasta de instalação

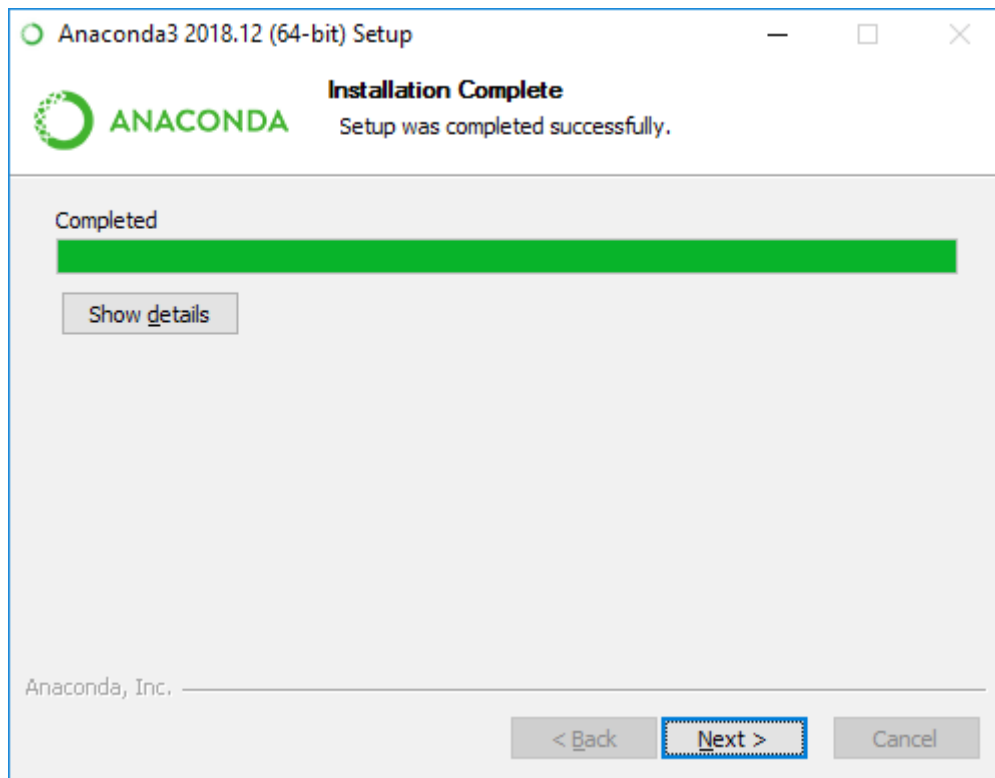


Escolher as opções conforme a figura a seguir

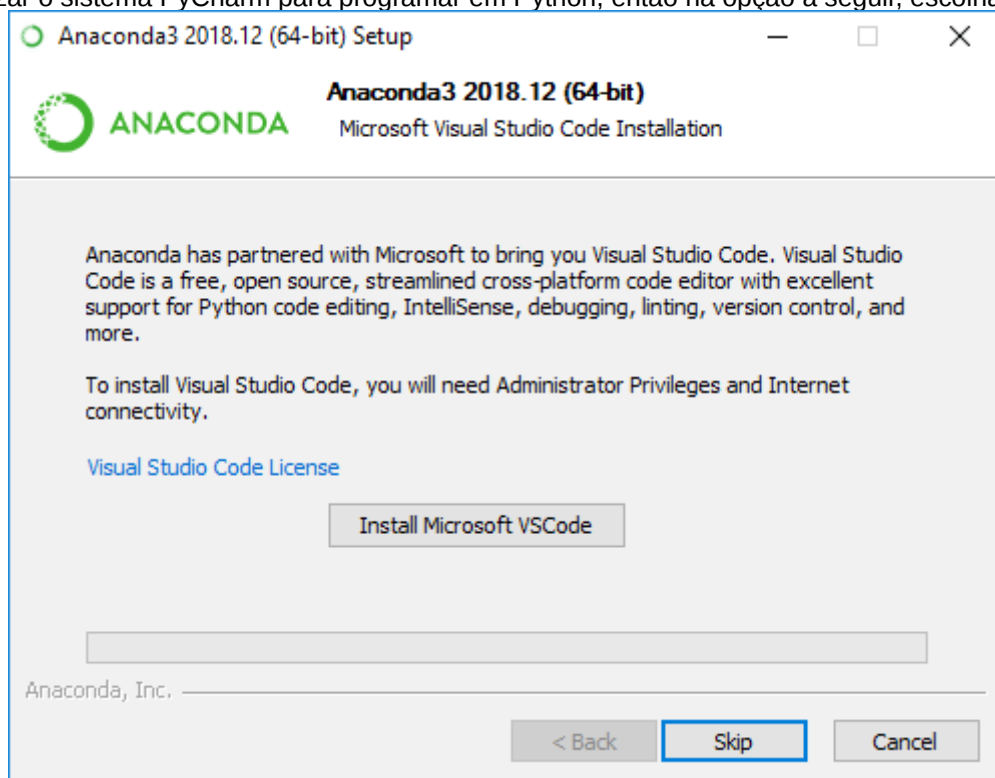


Aguardar o término da instalação (geralmente bastante tempo)

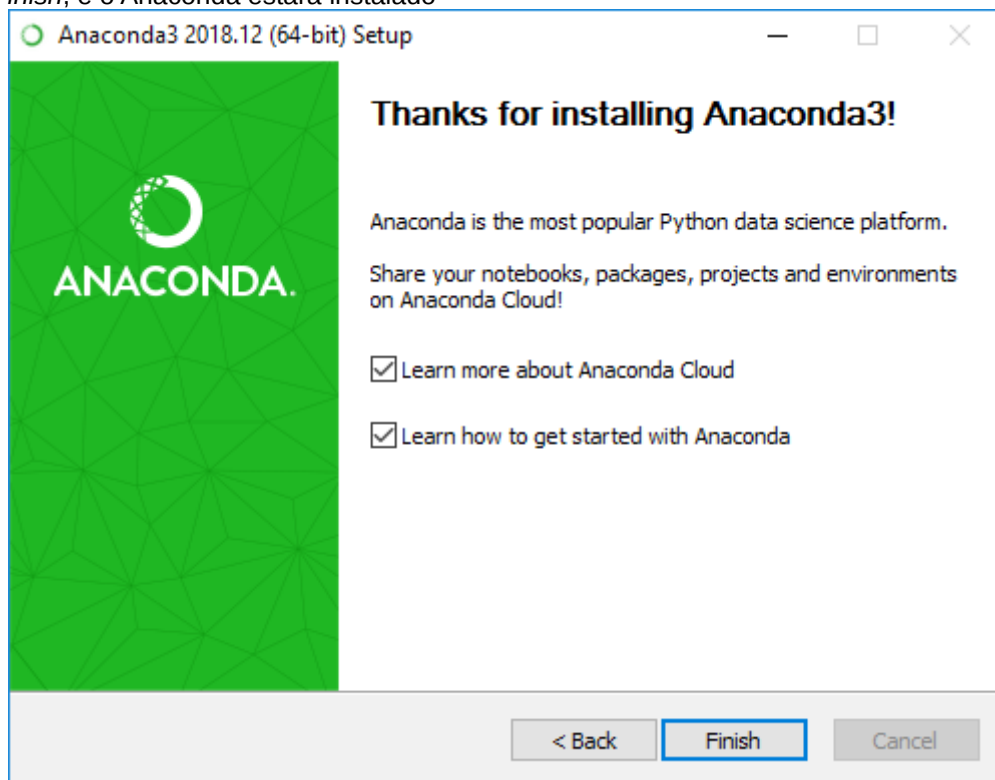




Vamos utilizar o sistema PyCharm para programar em Python, então na opção a seguir, escolha *Skip*



Pressione *Finish*, e o Anaconda estará instalado

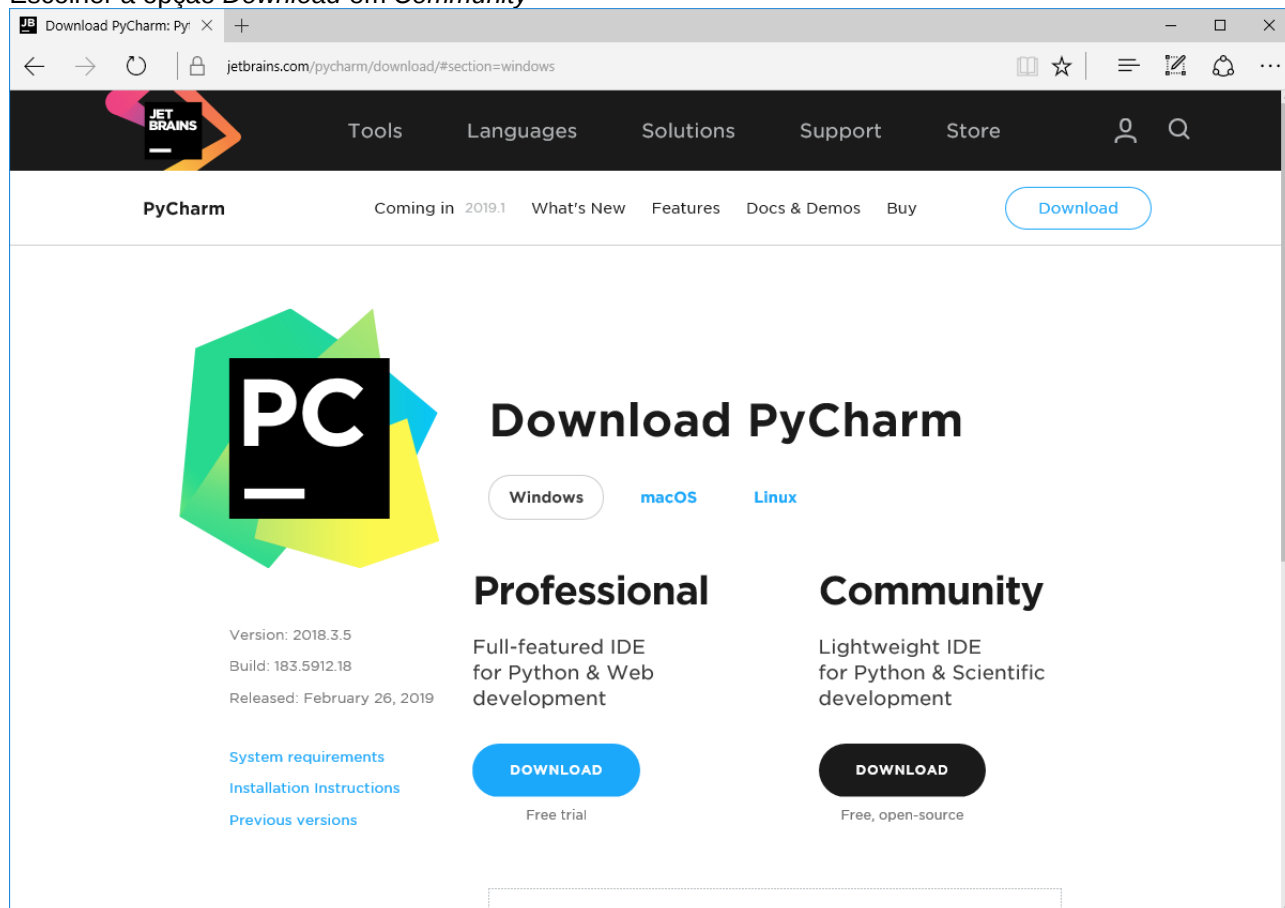


Instalação/Configuração do PyCharm

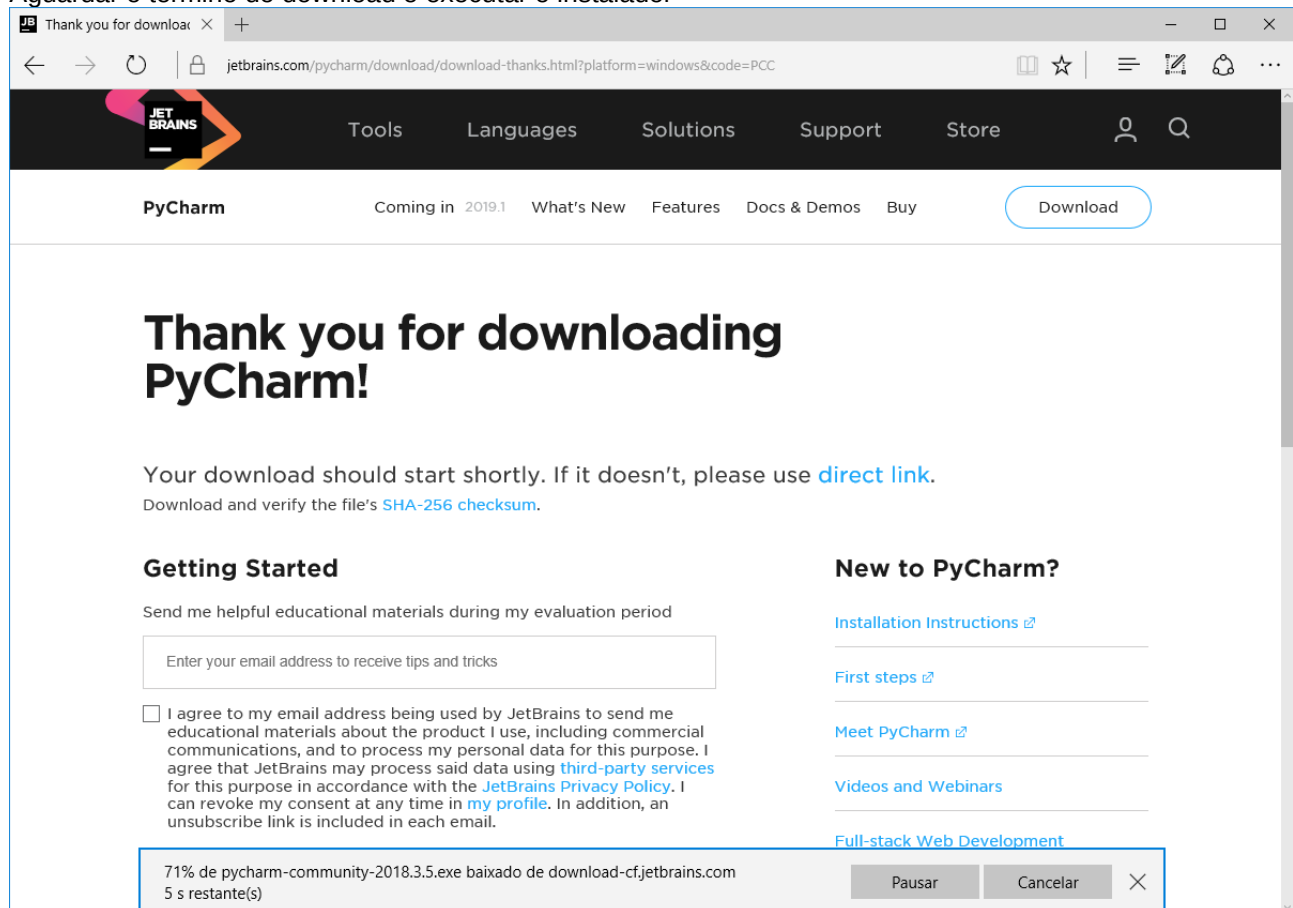
Entrar no site do PyCharm, e apontar para *Download*



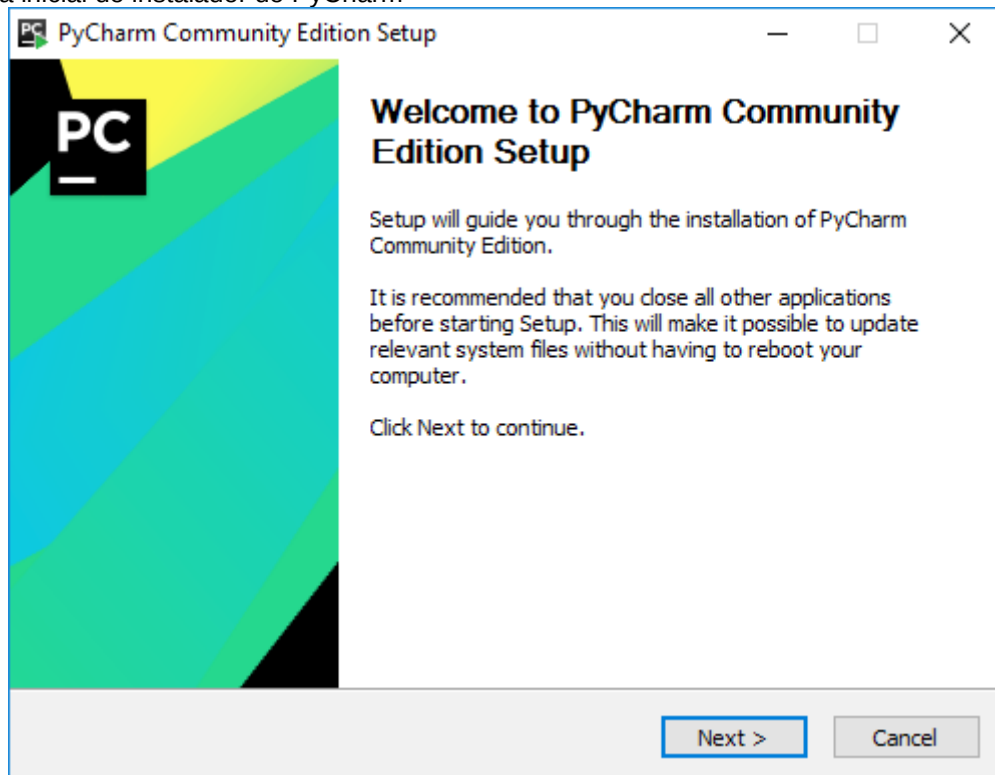
Escolher a opção *Download* em *Community*



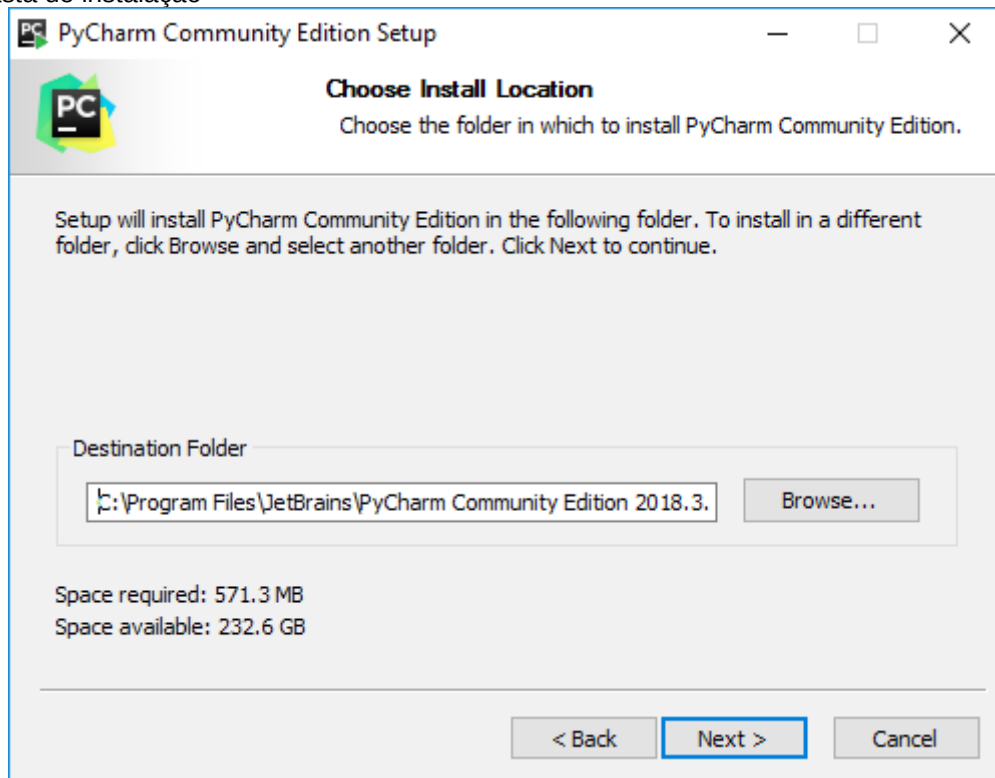
Aguardar o término do download e executar o instalador



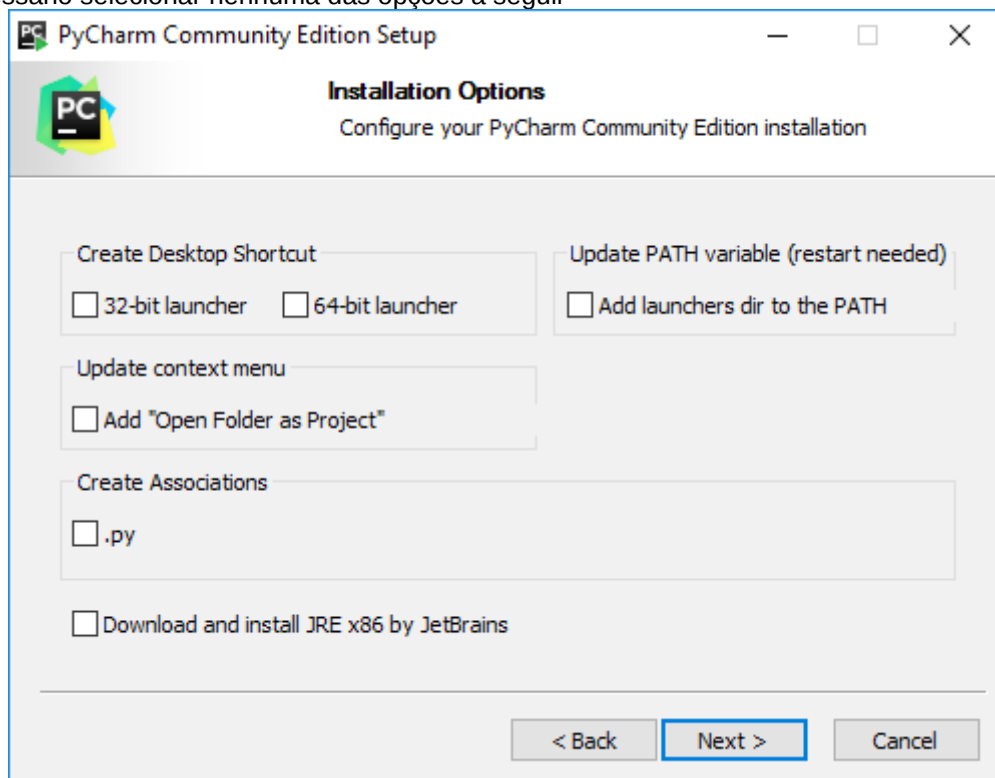
Esta é a tela inicial do instalador do PyCharm



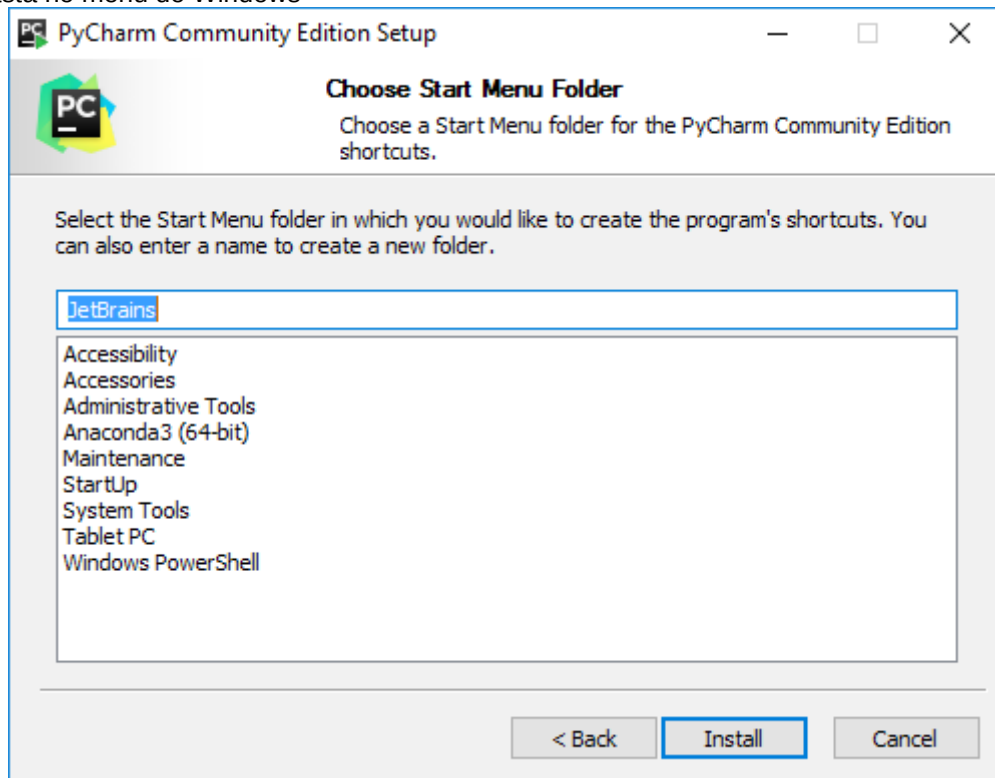
Definir a pasta de instalação



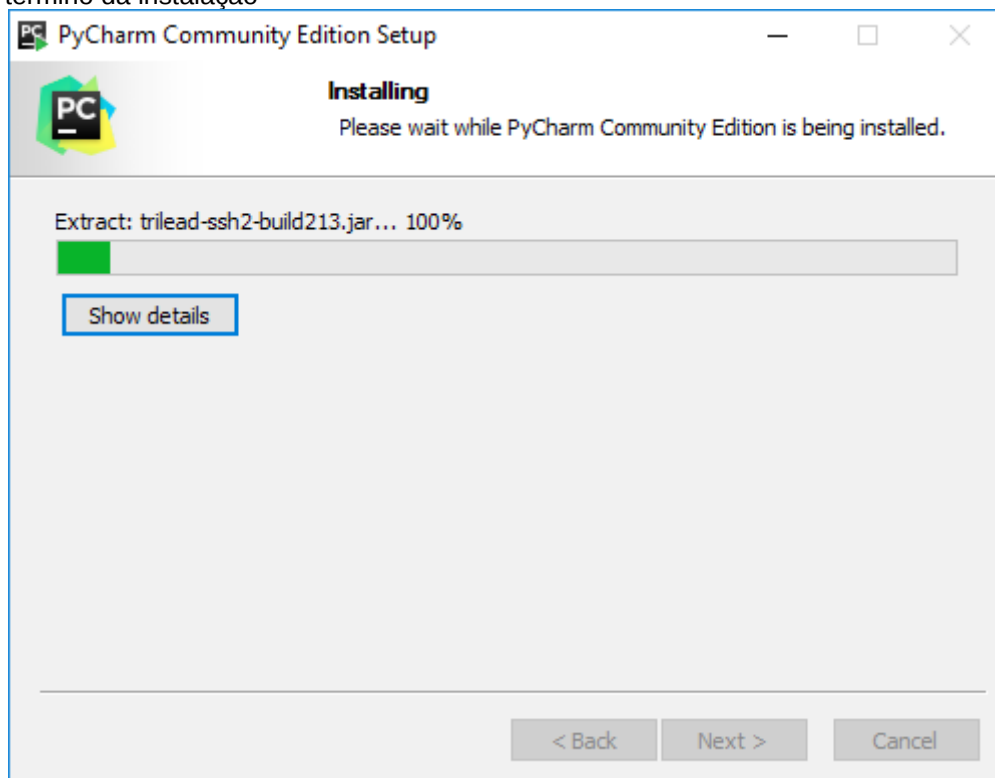
Não é necessário selecionar nenhuma das opções a seguir



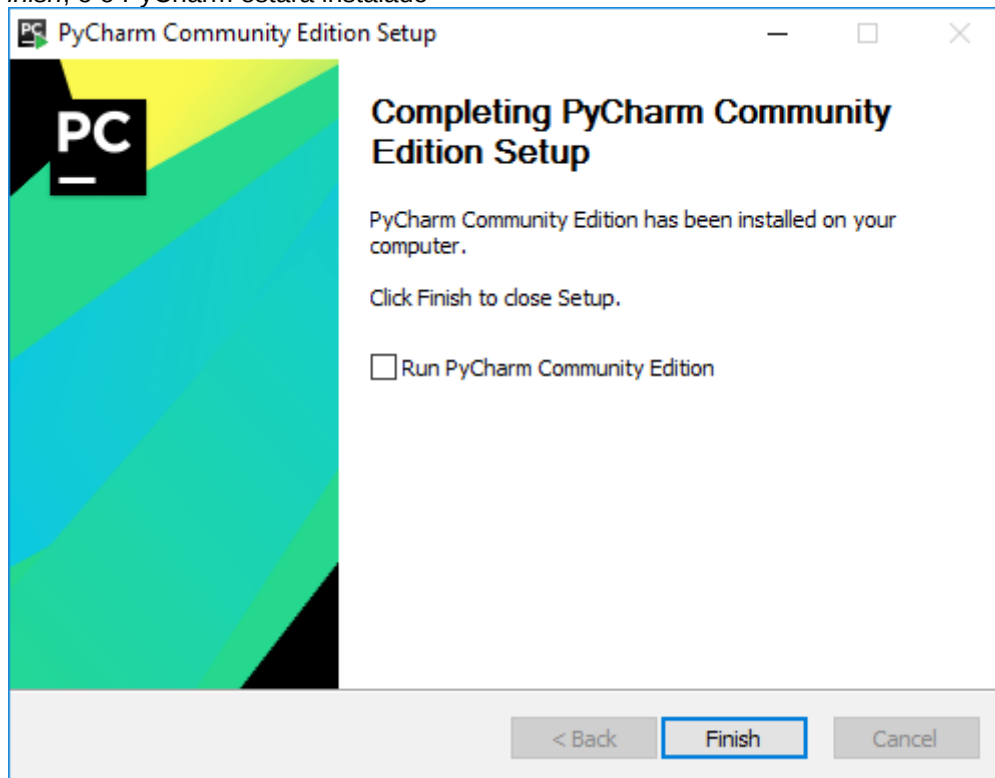
Definir a pasta no menu do Windows



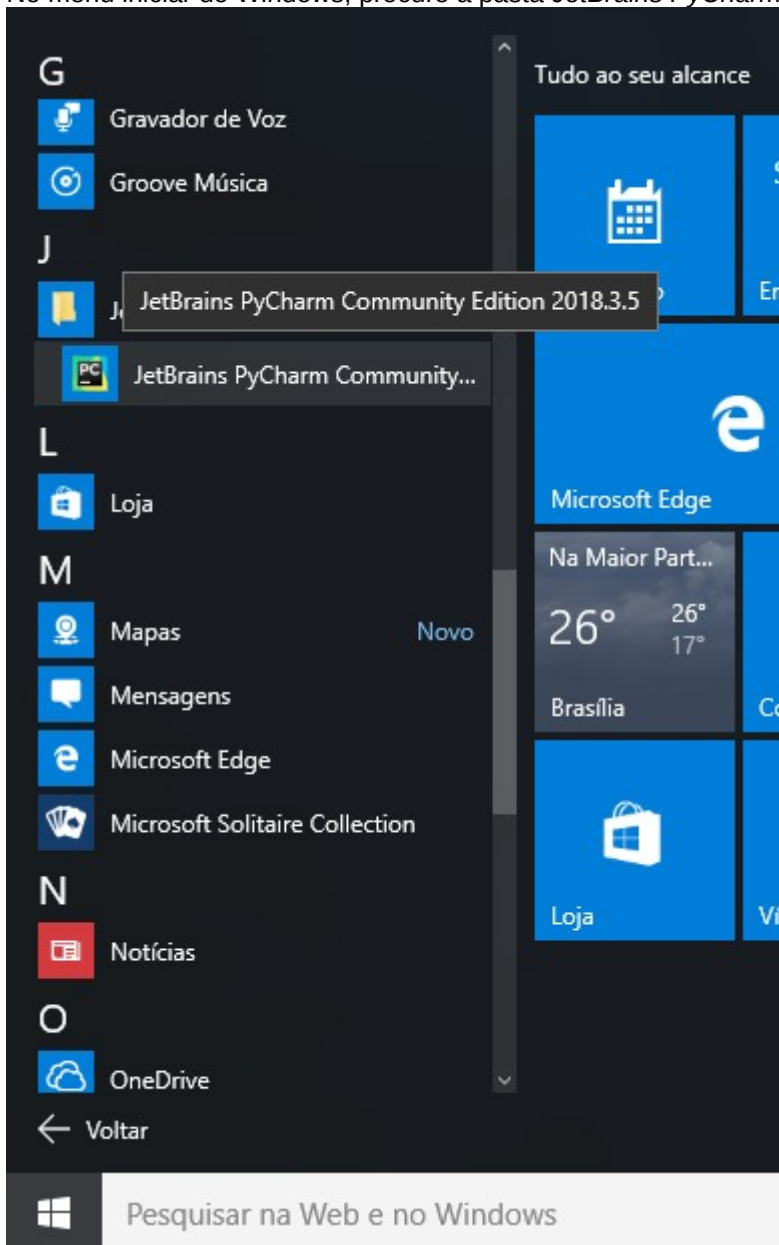
Aguardar o término da instalação



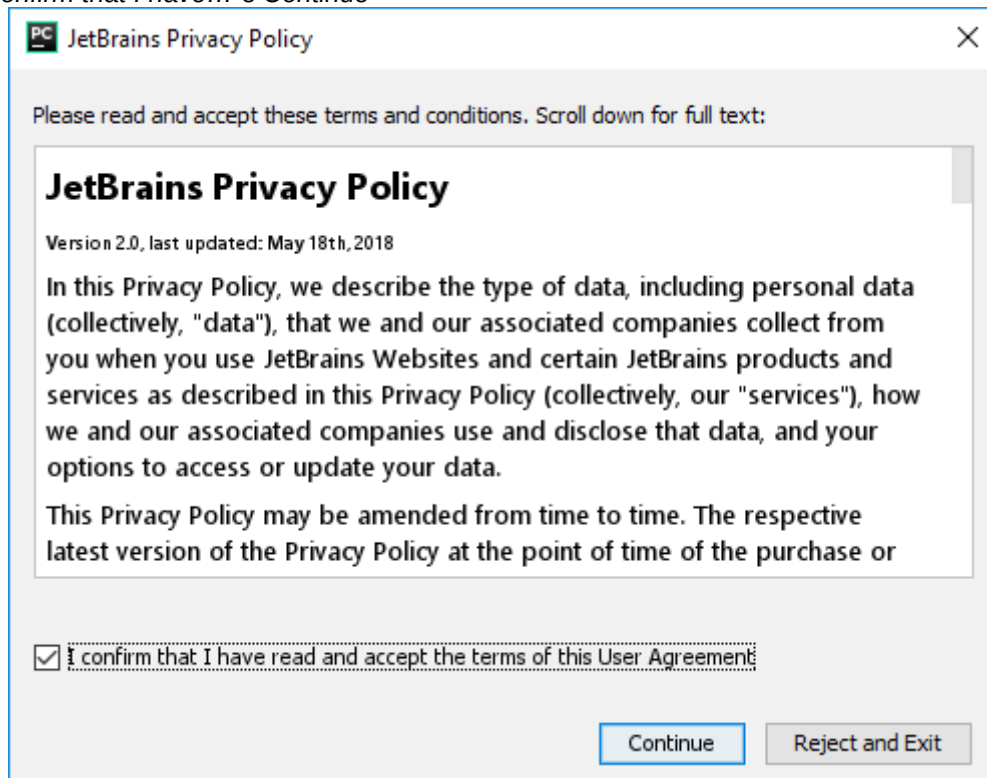
Pressione *Finish*, e o PyCharm estará instalado



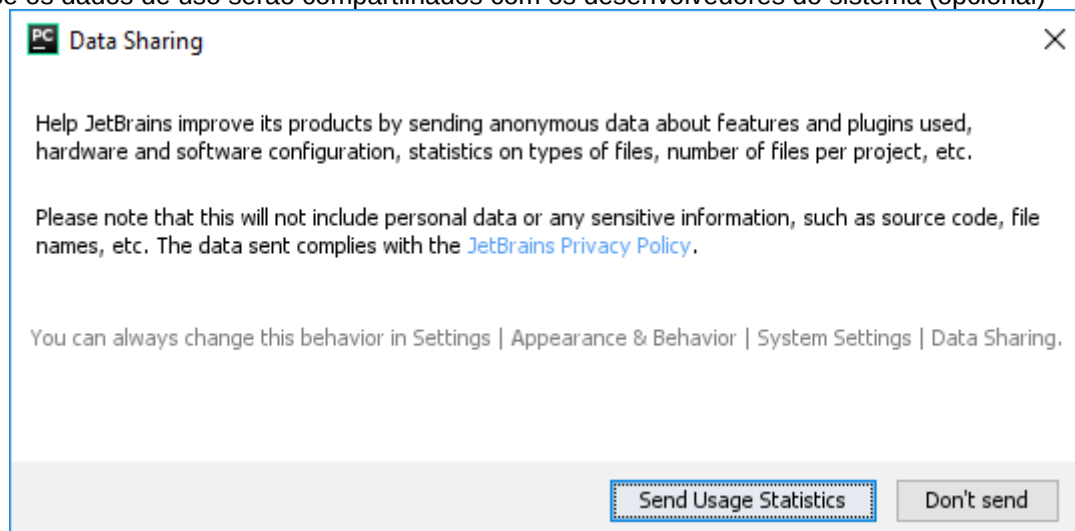
No menu iniciar do Windows, procure a pasta *JetBrains PyCharm Community Edition*...



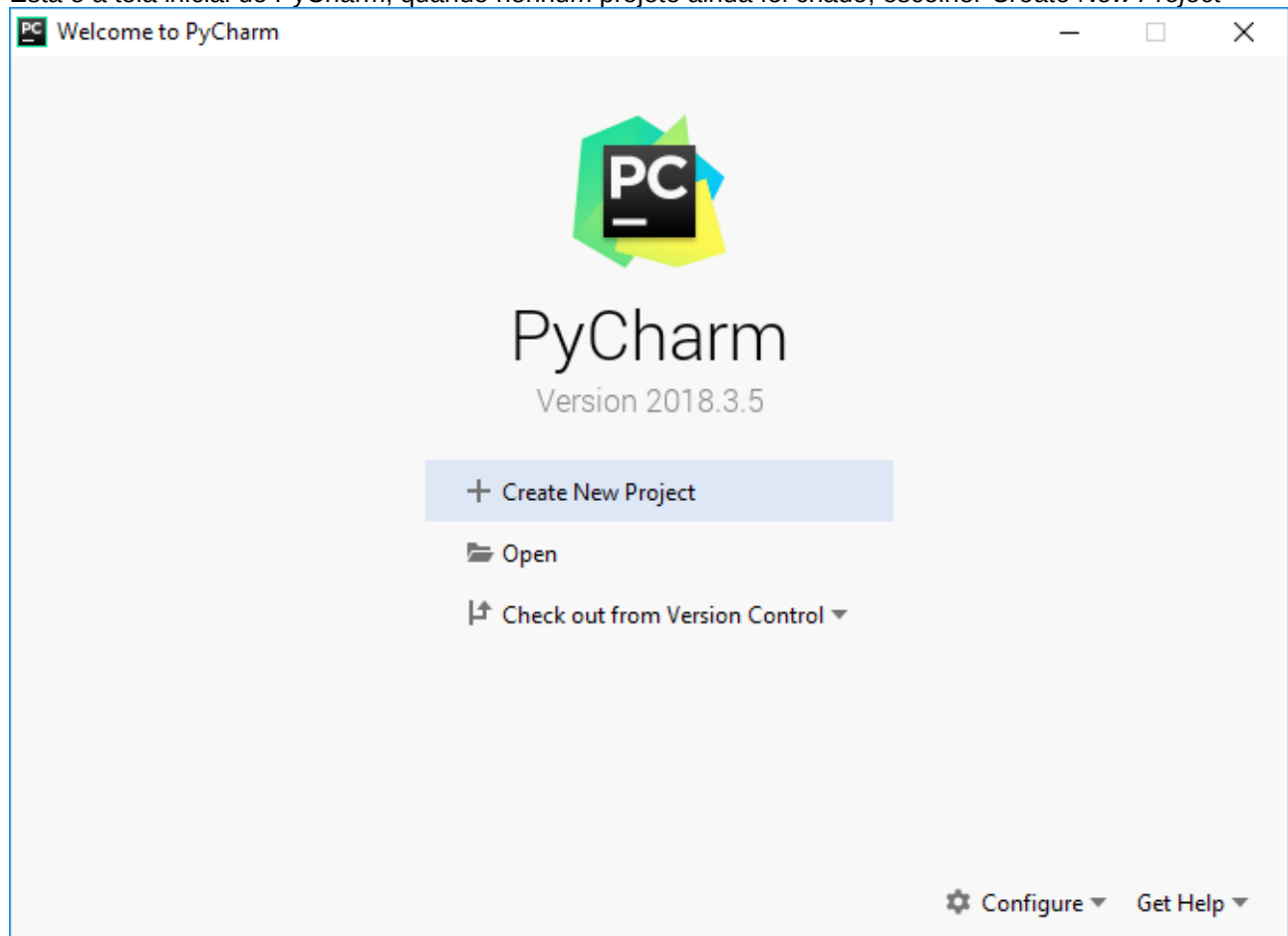
Escolher *I confirm that I have...* e Continue



Definir se os dados de uso serão compartilhados com os desenvolvedores do sistema (opcional)



Esta é a tela inicial do PyCharm, quando nenhum projeto ainda foi criado, escolher *Create New Project*



Definir uma localização para os arquivos do novo projeto (sugestão `c:\ser347`) e selecionar *Existing interpreter* (pressionar ..., e escolher, na pasta de instalação do Anaconda, o arquivo `python.exe`)

New Project

Location:

▼ Project Interpreter: Python 3.7

☐ New environment using ☒ Conda ▼

Location:

Python version:

Conda executable:

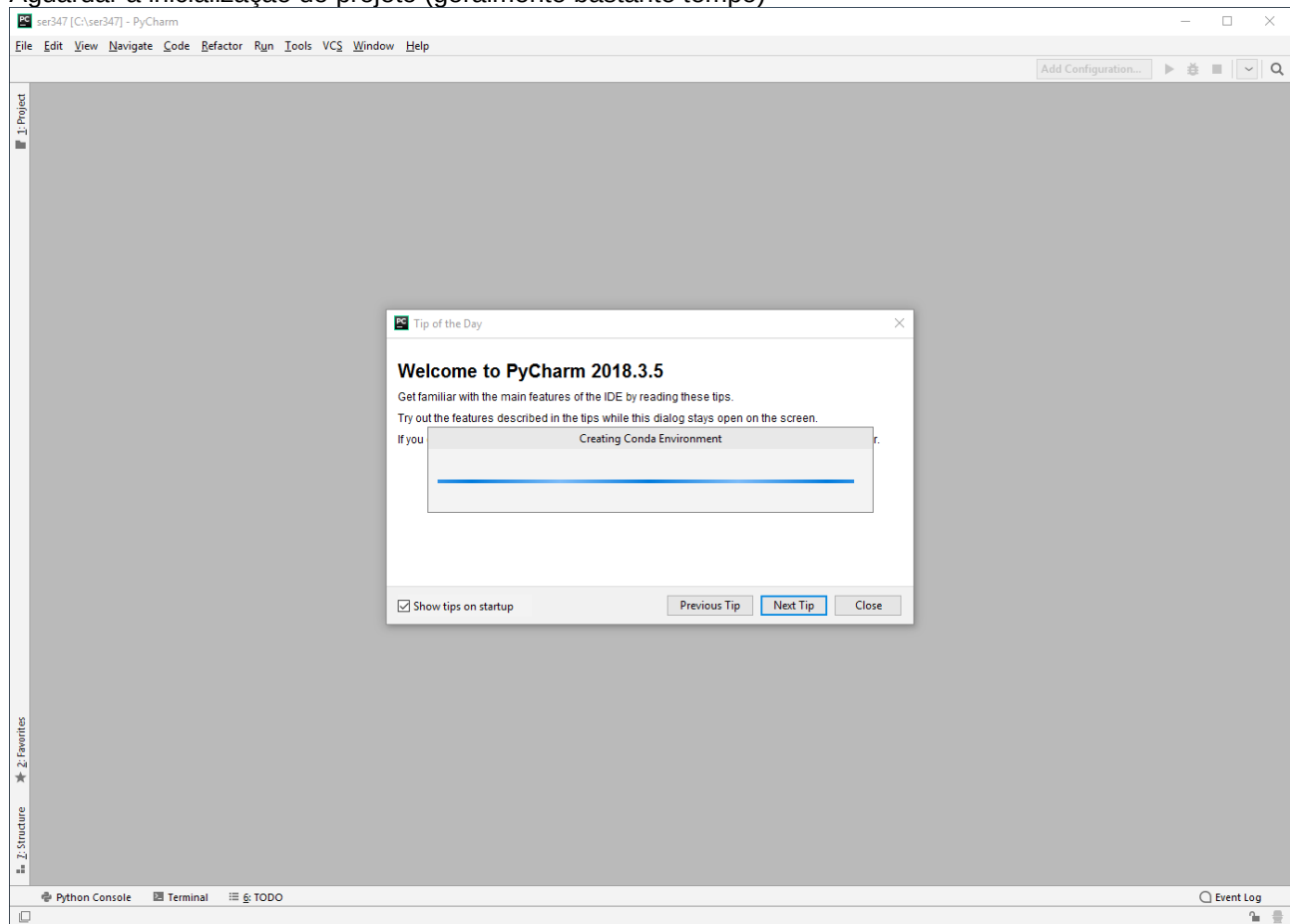
☐ Make available to all projects

☒ Existing interpreter

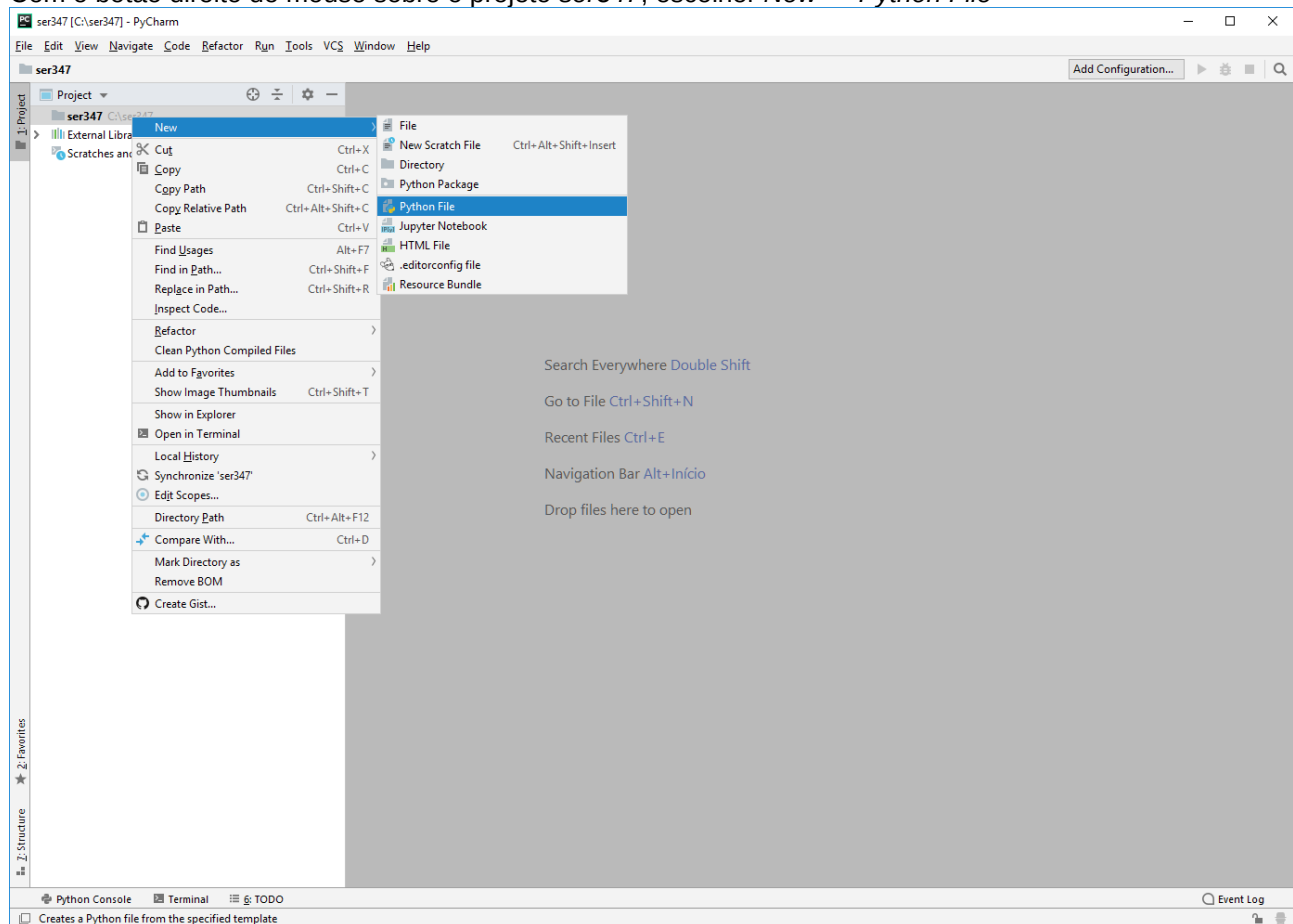
Interpreter: ...

Create Cancel

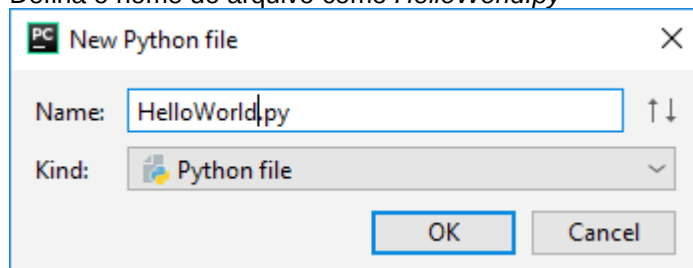
Aguardar a inicialização do projeto (geralmente bastante tempo)



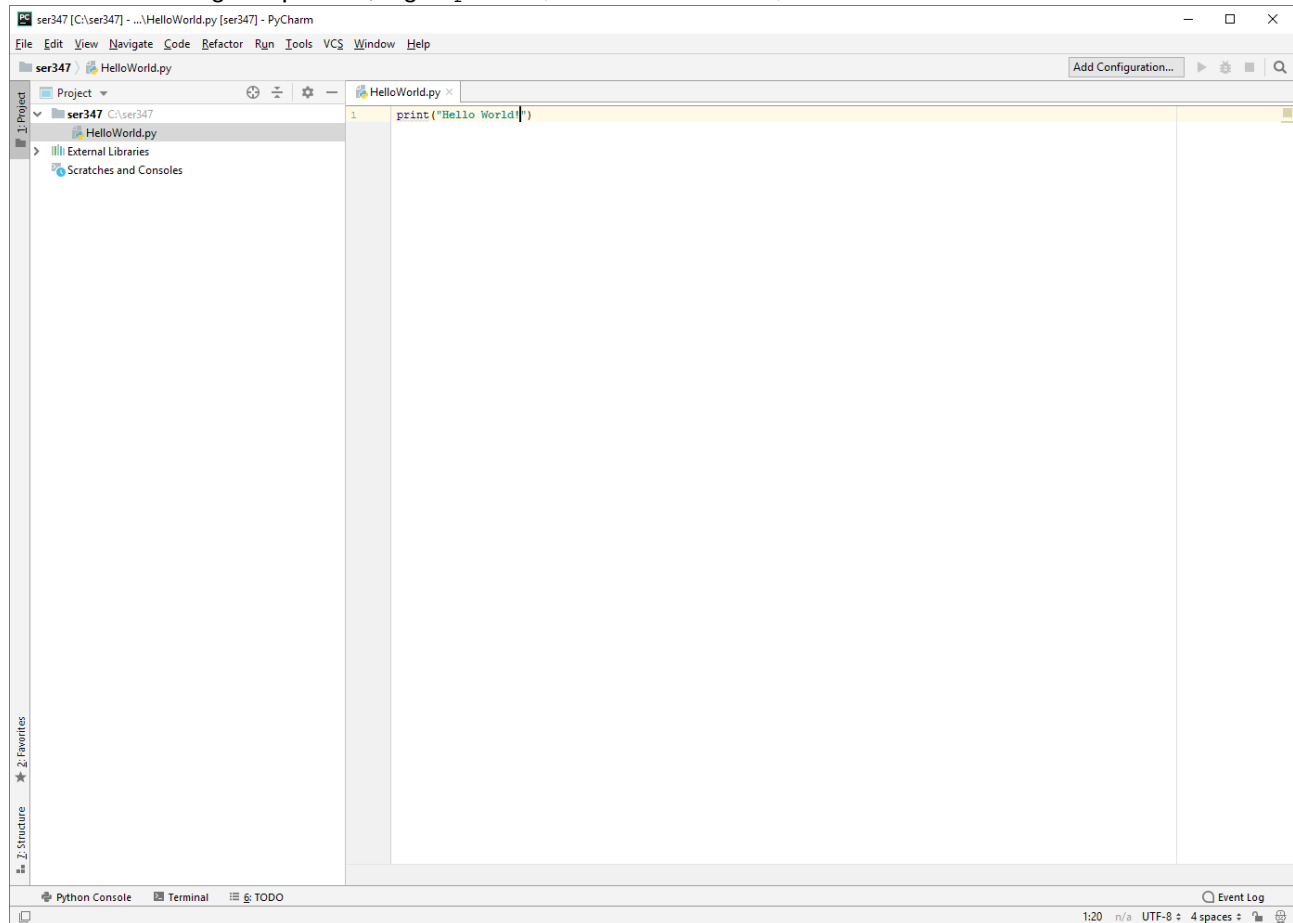
Com o botão direito do mouse sobre o projeto *ser347*, escolher *New* → *Python File*



Defina o nome do arquivo como *HelloWorld.py*

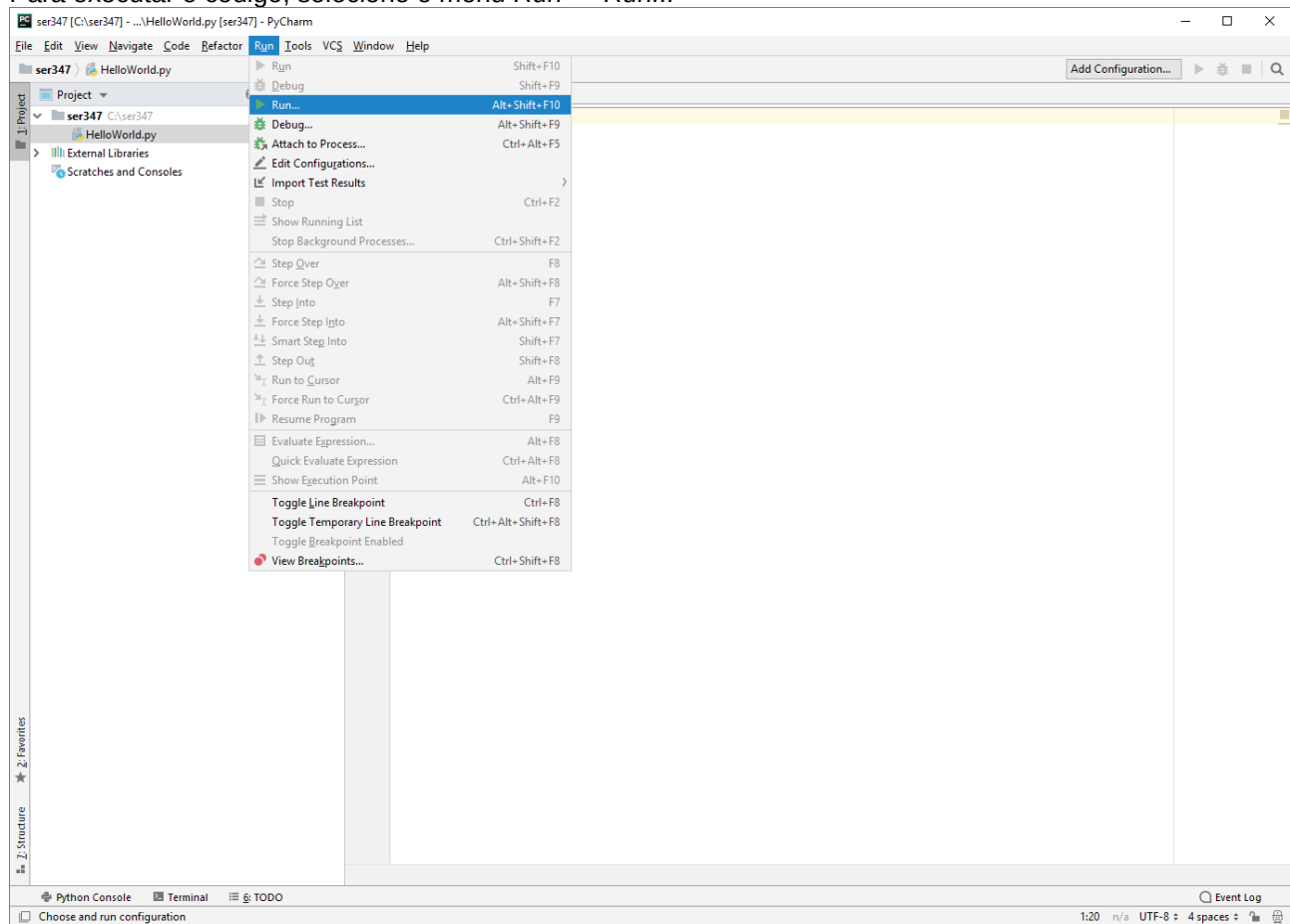


No editor de código disponível, digite `print("Hello World!")`

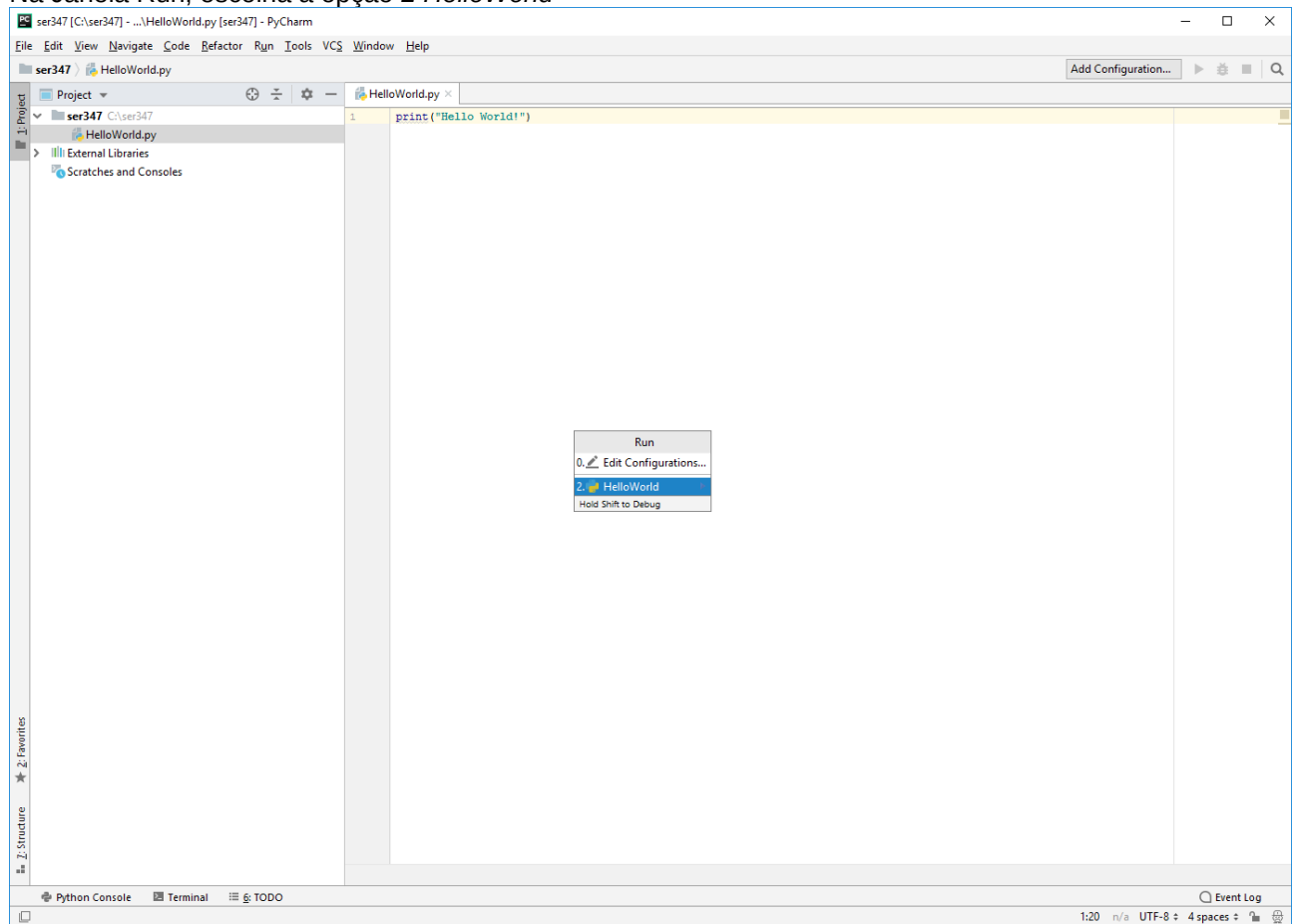


Observe que na primeira execução do PyCharm, a barra inferior deverá mostrar uma lista de tarefas em execução. Apenas após o término dessa lista, será possível avançar para o próximo passo deste tutorial.

Para executar o código, seleccione o menu *Run* → *Run...*



Na Janela Run, escolha a opção *2 HelloWorld*



A área abaixo da tela mostra a execução do código, escrevendo na tela o texto *Hello World!*

