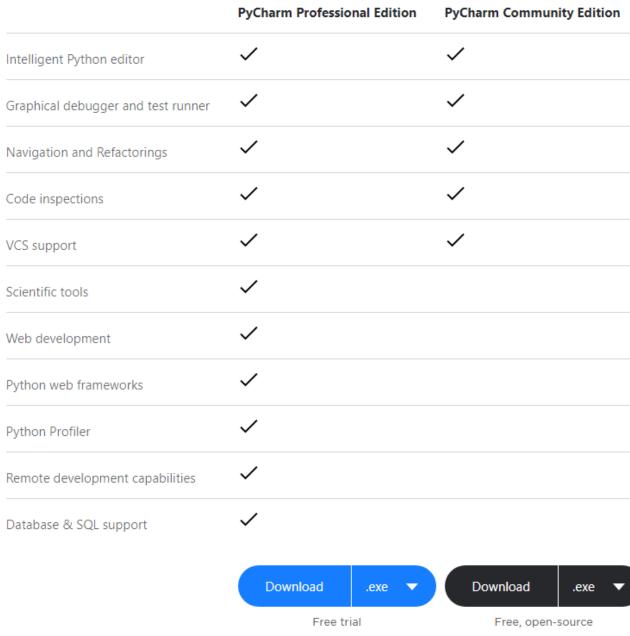
Pycharm for Anaconda

INTRODUÇÃO

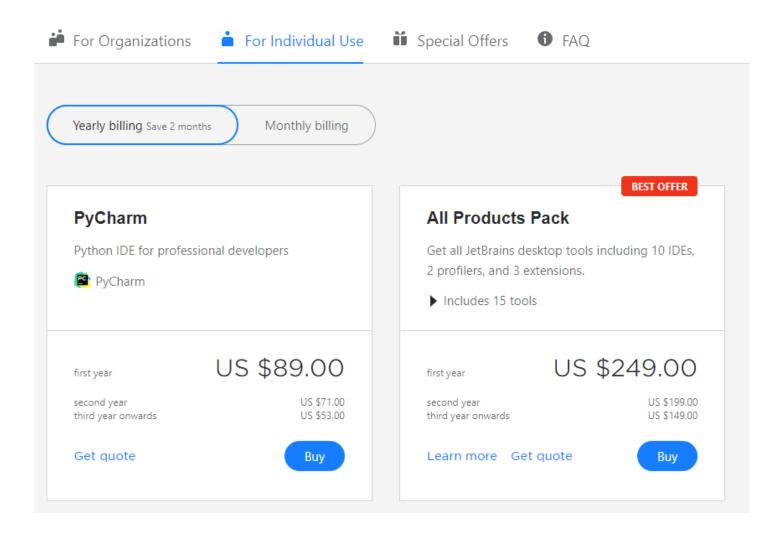
1. Informações Iniciais

- ▶ PyCharm
 - ▶ IDE cross-platform dedicada para Python (03/02/2010, 10yo)
 - ▶ Desenvolvida em Java e Python
- Desenvolvedor: Jetbrains (empresa tcheca, 14/08/2000, 20yo)
 - Principais produtos:
 - ▶ ItelliJ IDEA: a mais popular IDE Java paga
 - ▶ Android Studio: principal IDE para desenvolvimento Android



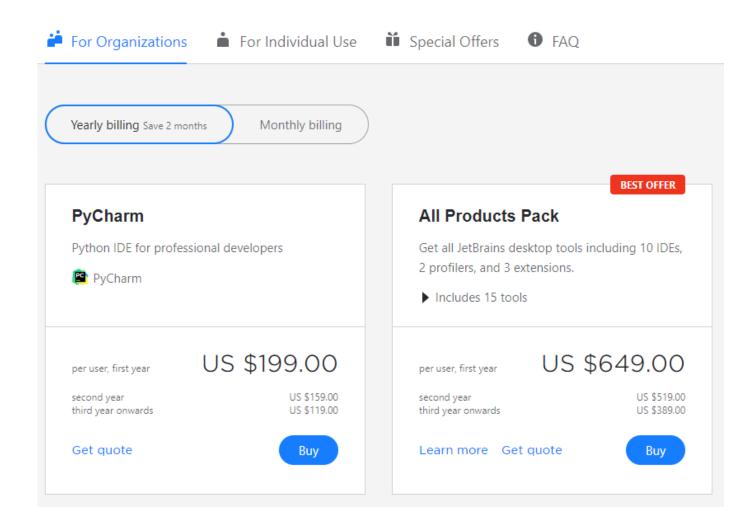
https://www.jetbrains.com/pycharm/

2. Versões



3. Preços

https://www.jetbrains.com/pycharm/buy/#personal?billing=yearly



3. Preços

https://www.jetbrains.com/pycharm/buy/#commercial?billing=yearly

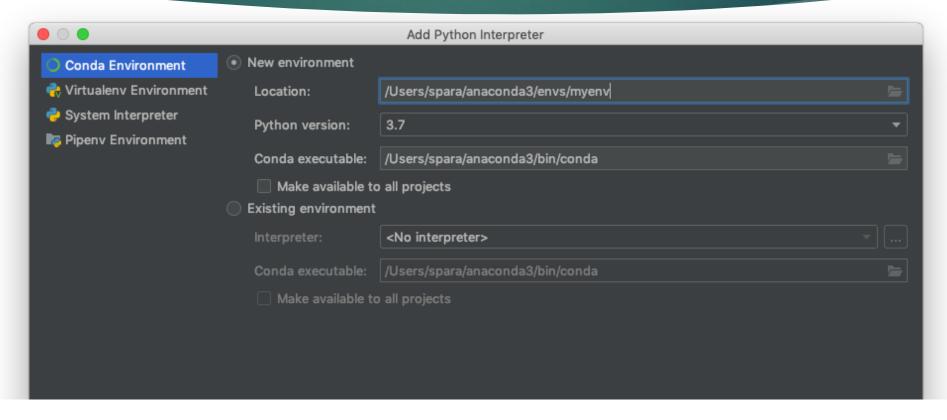
4. Qual instalar?

Other Versions

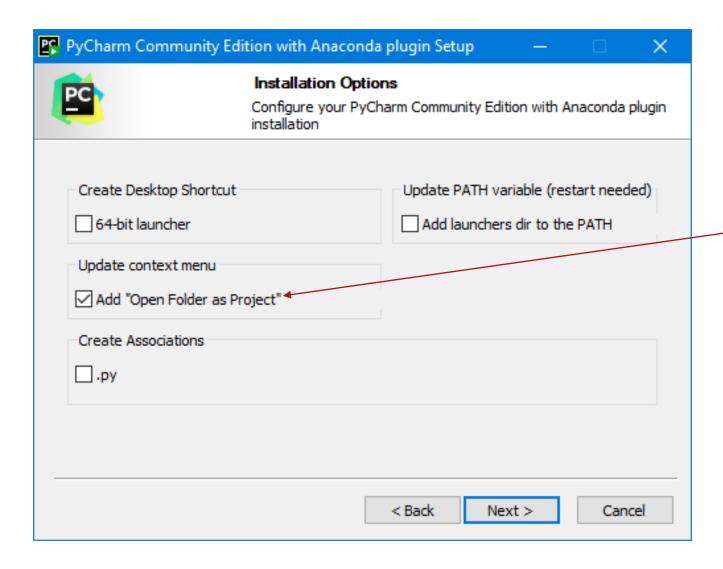
Version 2020.2	2020.2.1	•				
PyCharm Professional Edition			PyCharm Community Edition			
2020.2.1 - Linux (tar.gz)			2020.2.1 - Linux (tar.gz)	Version: 2020.2.1 (Release notes) Build: 202.6948.78		
2020.2.1 - Linux with Anaconda plugin (tar.gz)			2020.2.1 - Linux with Anaconda plugin (tar.gz)	 Released: 25 August 2020 PyCharm Professional Edition third-party software PyCharm Community Edition third-party software 		
2020.2.1 - Windows (exe)			2020.2.1 - Windows (exe)			
2020.2.1 - Windows with Anaconda plugin (exe) 2020.2.1 - macOS (dmg) 2020.2.1 - macOS with Anaconda plugin (dmg)		exe)	2020.2.1 - Windows with Anaconda plugin (exe)			
			2020.2.1 - macOS (dmg)			
		ng)	2020.2.1 - macOS with Anaconda plugin (dmg)			

https://www.jetbrains.com/pycharm/download/other.html

4. O Plugin Anaconda



https://docs.anaconda.com/anaconda/user-guide/tasks/pycharm/



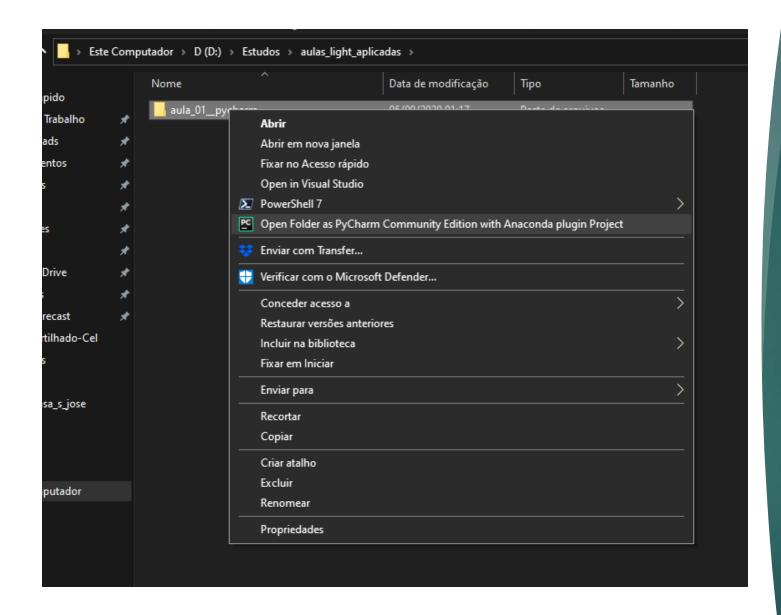
Marcar:

Add "Open Folder as Project"

Para abrir/criar projetos rapidamente

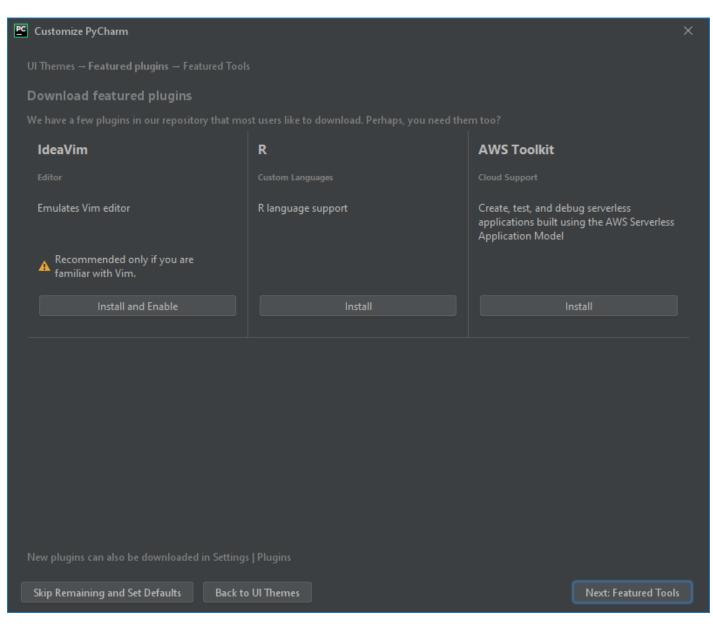
5. Dica de instalação

(Windows)



5. Dica de instalação

Para criar ou abrir um projeto rapidamente



6. Plugins

7. Personalizações

ESQUEMA DE CORES: MONOKAI

FONTE: JETBRAINS MONO 16

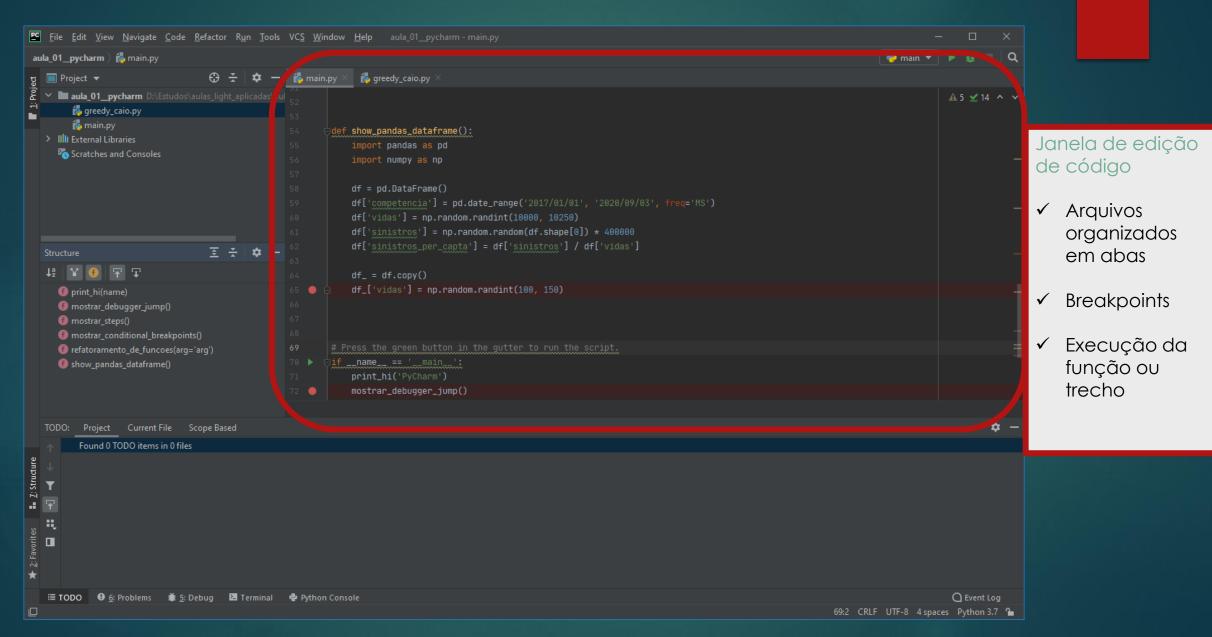
COMENTÁRIOS: ITÁLICO

```
def mostrar_debugger_jump():
    # Use a breakpoint in the code
   hex_2_ascii = dict()
    for i in range(32, 126):
        hex_2_ascii[hex(i)] = chr(;
    dec_2_ascii = dict()
    for i in range(32, 145):
        dec_2_ascii[i] = chr(i)
    return hex_2_ascii, dec_2_asci
def mostrar_steps():
   hex_2_ascii, dec_2_ascii = most
    print(f'Tabela Hex-ASCII: {hex_
    print(f'Tabela Dec-ASCII: {dec_2
if name ==' main '
```

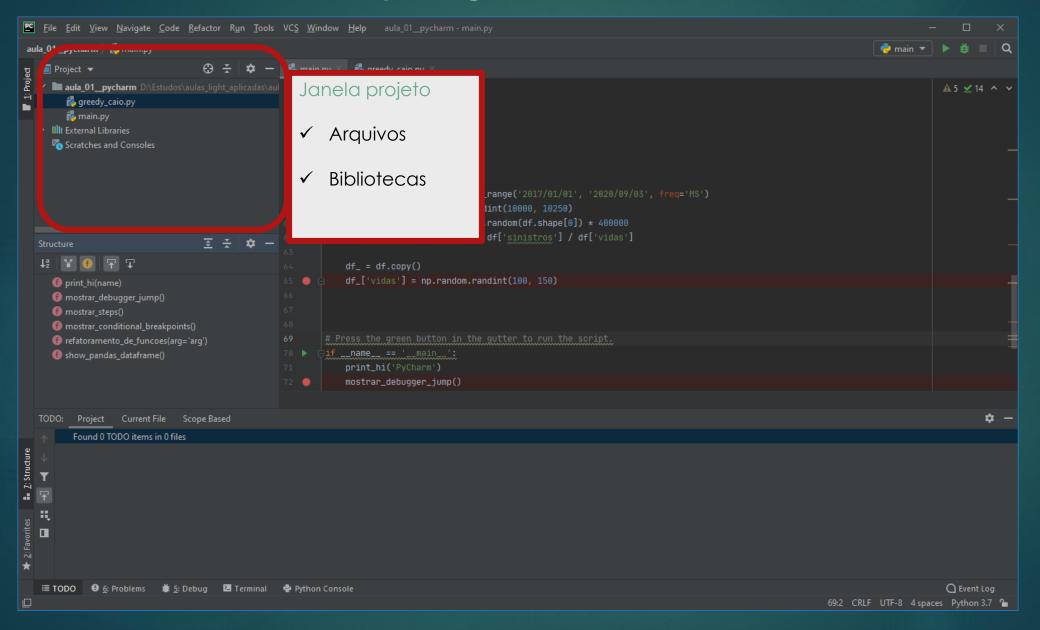
Separador de funções e métodos

SETTINGS -> GENERAL -> EDITOR -> APPEARANCE -> SHOW METHOD SEPARATORS

7. Janela: editor



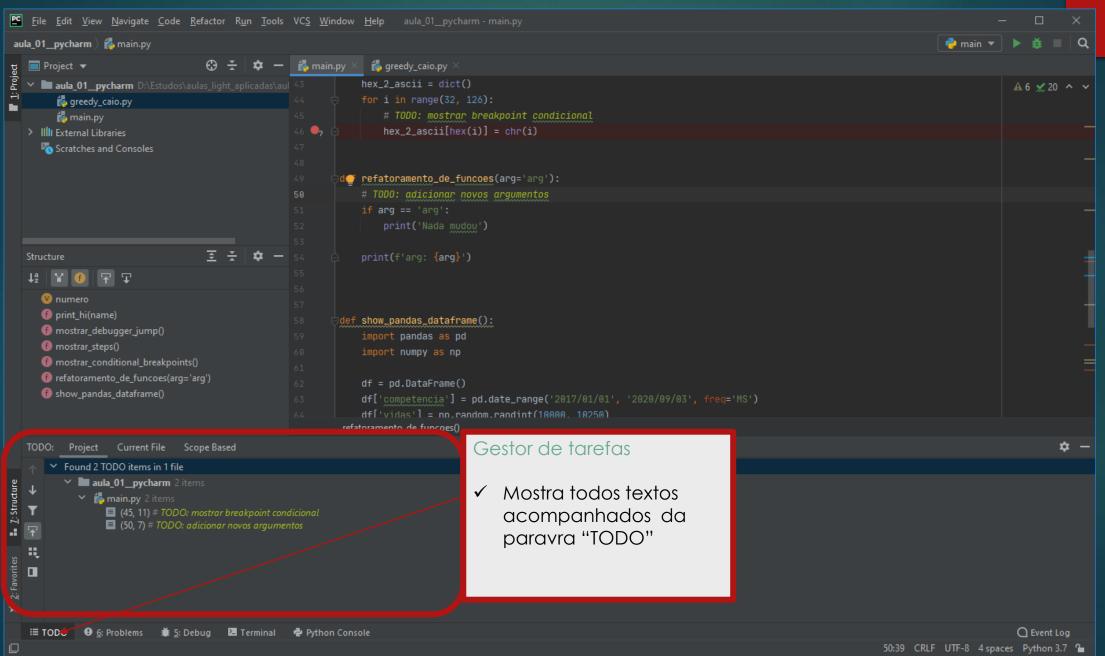
7. Janela: projeto



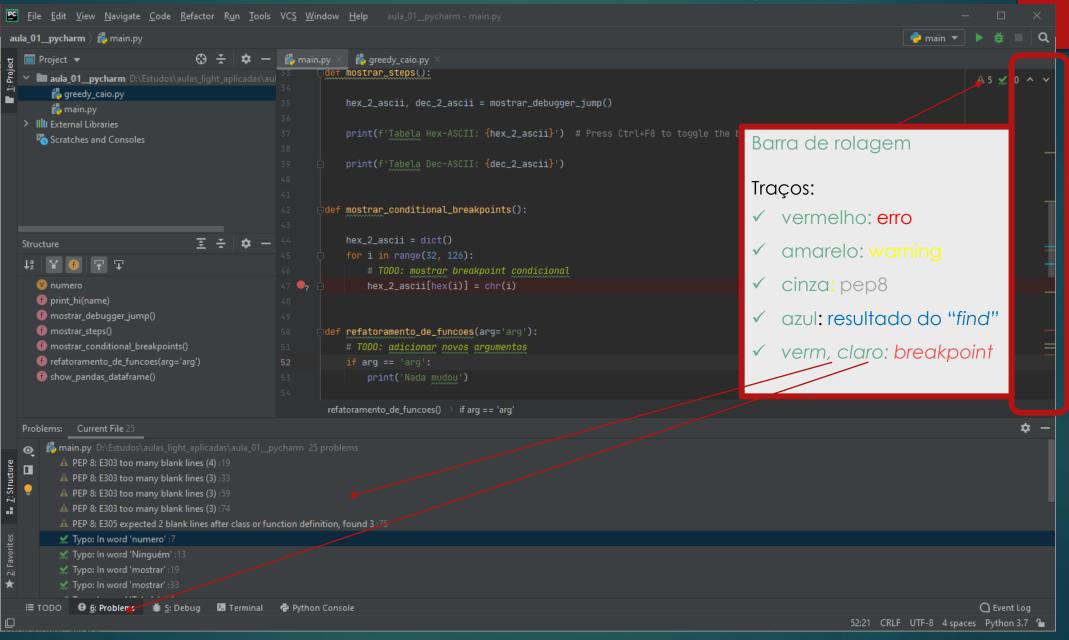
Z Jane Les trutura do arquivo atual. 🧖 main 🔻 🕨 🇯 🗏 Q aula_01__pycharm) 🐔 main.py ち main.py ʊ 🔳 Project ▼ d greedy_caio.py hex 2 ascii = dict() ✓ ■ aula_01_pycharm D:\Estudos\aulas_light_aplicadas\aul 43 A 6 ± 20 ^ ∨ d greedy_caio.py # TODO: mostrar breakpoint condicional the main.py 46 $hex_2_ascii[hex(i)] = chr(i)$ > III External Libraries Scratches and Consoles d∰ refatoramento_de_funcoes(arg='arg'): # TODO: adicionar novos argumentos if arg == 'arg': print(f'arg: {arg}') 12 Y 6 7 T w numero Janela estrutura f print_hi(name) f mostrar_debugger_jump() do arquivo f mostrar_steps() mostrar conditional breakpoints() f refatoramento_de_funcoes(arg='arg') ✓ Funções f show_pandas_dataframe() date_range('2017/01/01', '2020/09/03', freq='MS') ✓ Variáveis **\$** -TODO: Project Current File Scope Based → Found 2 TODO items in 1 file ✓ Classes ✓ aula_01_pycharm 2 items main.py 2 items (45, 11) # TODO: mostrar breakpoint co (50, 7) # TODO: adicionar novos argumentos III TODO 🛮 6: Problems 🌲 5: Debug 🔼 Terminal ಿ Python Console C Event Log

50:39 CRLF UTF-8 4 spaces Python 3.7 🦫

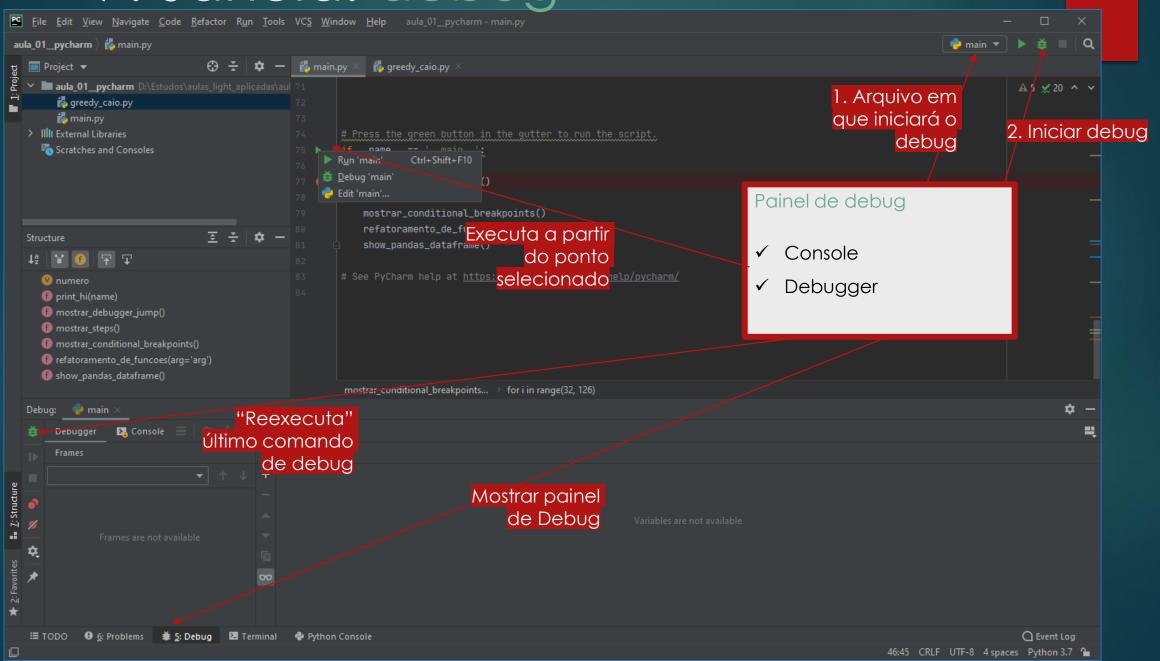
7. Janela: TODO

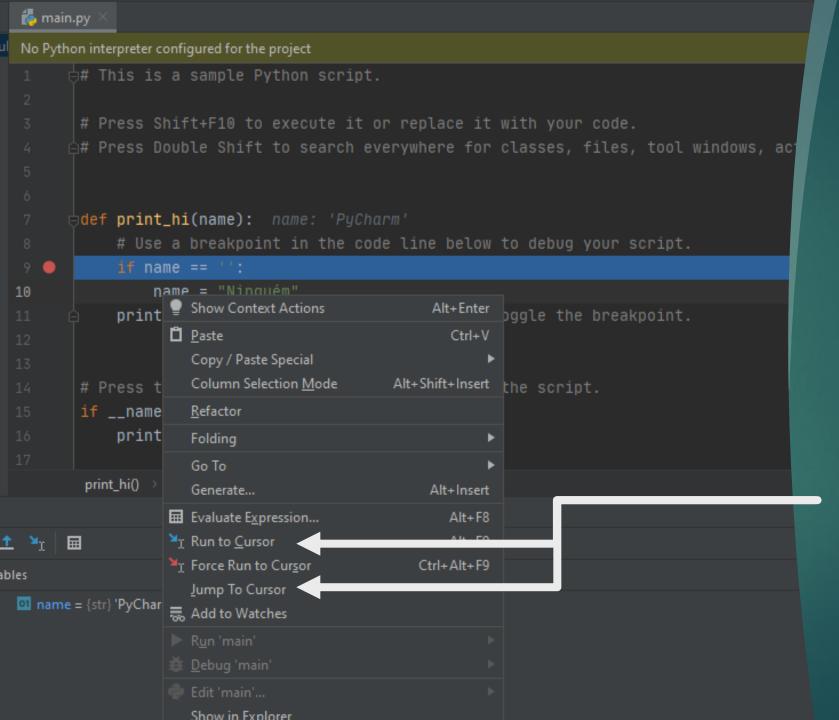


7. Janela: a barra de rolagem



7. Janela: debug





Motivo 1:

O DEBUGGER!

```
hex_2_ascii, dec_2_ascii = mostrar_debugger_jump()
                  print(f'Tabela Hex-ASCII: {hex_2_ascii}') # Press Ctrl+F8 to toggle the breakpoint.
                   print(f'Tabela Dec-ASCII: {dec_2_ascii}')
              def mostrar_conditional_breakpoints():
                   hex_2_ascii = dict()
                   for i in range(32, 126):
     43
                       hex_2_ascii[hex(i)] = chr(i)
              def refatoramento_de_funcoes(arg='arg'):
                                                   Show Context Actions
                                                                                       Alt+Enter
                   if arg == 'arg':
                                                  Paste
                       print('Nada mudou')
                                                     Copy / Paste Special
                   print(f'arg: {arg}')
                                                     Column Selection Mode
                                                                                  Alt+Shift+Insert
                                                     Find Usages
                                                                                                    Change Signature...
                                                     Go To
              if __name__ == '__main__':
                                                                                                    Copy File...
                                                     Generate...
                   print_hi('PyCharm')
                                                                                                    Introduce Variable...
                                                                                                                            Ctrl+Alt+V
                   mostrar_debugger_jump()
                                                                                   Ctrl+Shift+F10
                                                                                                    Introduce Constant...
                                                                                                                            Ctrl+Alt+C
                   mostrar_steps()
                                                  🏥 Debug 'main'
                                                                                                                            Ctrl+Alt+F
                                                                                                    Introduce Field...
                                                  edit 'main'...
               refatoramento_de_funcoes()
                                                                                                                            Ctrl+Alt+P
                                                     Show in Explorer
                                                                                                    Extract Method...
                                                                                                                            Ctrl+Alt+M
                                                     File Path
                                                                                    Ctrl+Alt+F12
                                                  Open in Terminal
                                                                                                    Extract Superclass...
                                                                                                    Pull Members Up...
Variables
                                                     Local History
                                                                                                    Push Members Down...
                                                     Execute Line in Python Console
                                                                                     Alt+Shift+E
                                                  Run File in Python Console
                                                  Compare with Clipboard
                                                  Create Gist...
```

Motivo 2:

REFATORAÇÃO:

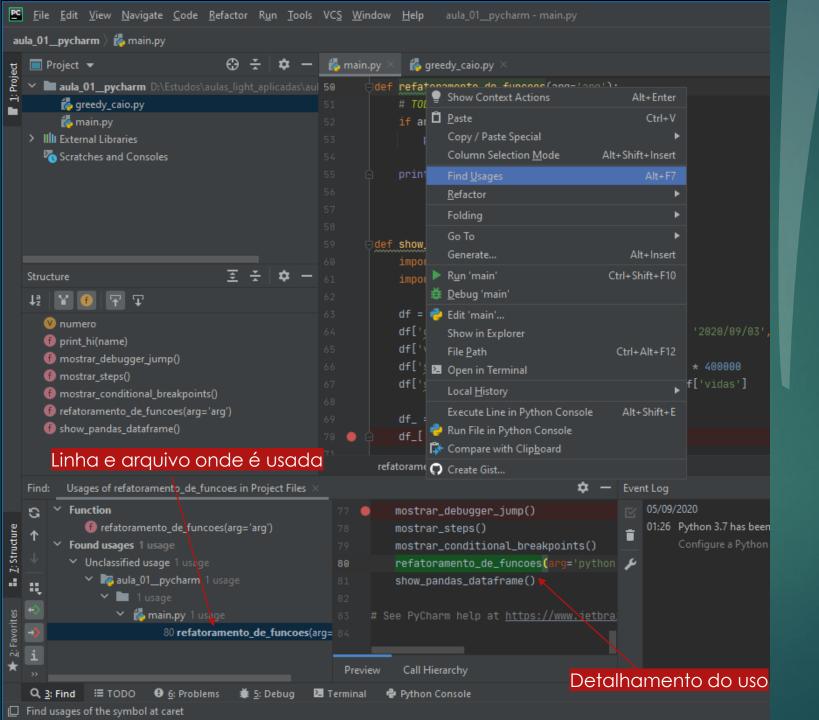
renomear

```
def mostrar_steps():
    hex_2_ascii, dec_2_ascii = mostrar_debugger_jump()
    print(f'Tabela Hex-ASCII: {hex_2_ascii}') # Press Ctrl+F8 to toggle the breakpoint.
    print(f'Tabela Dec-ASCII: {dec_2_ascii}')
|def mostrar_conditional_breakpoints():
                                                           PC Change Signature
    hex_2_ascii = dict()
                                                            Name:
    for i in range(32, 126):
        hex_2_ascii[hex(i)] = chr(i)
                                                             refatoramento_de_funcoes
                                                            arg = 'arg' // default value = 'arg'
                                                                                                   +
def refatoramento_de_funcoes(arg='arg'):
    if arg == 'arg':
        print('Nada mudou')
    print(f'arg: {arg}')
                                                            Signature Preview
                                                            refatoramento_de_funcoes(arg = 'arg')
if __name__ == '__main__':
    print_hi('PyCharm')
    mostrar_debugger_jump()
    mostrar_steps()
refatoramento de funcoes()
                                                                   Refactor
                                                                                Preview
                                                                                             Cancel
```

Motivo 3:

REFATORAÇÃO:

mudança da assinatura da função/método

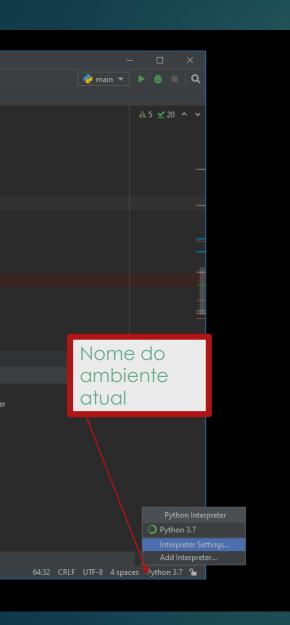


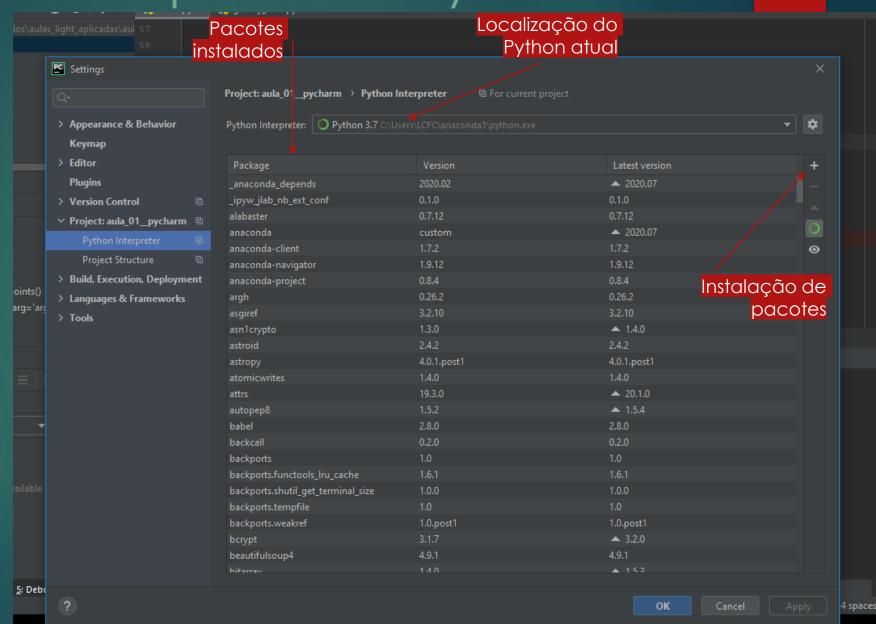
Motivo 4:

BUSCA:

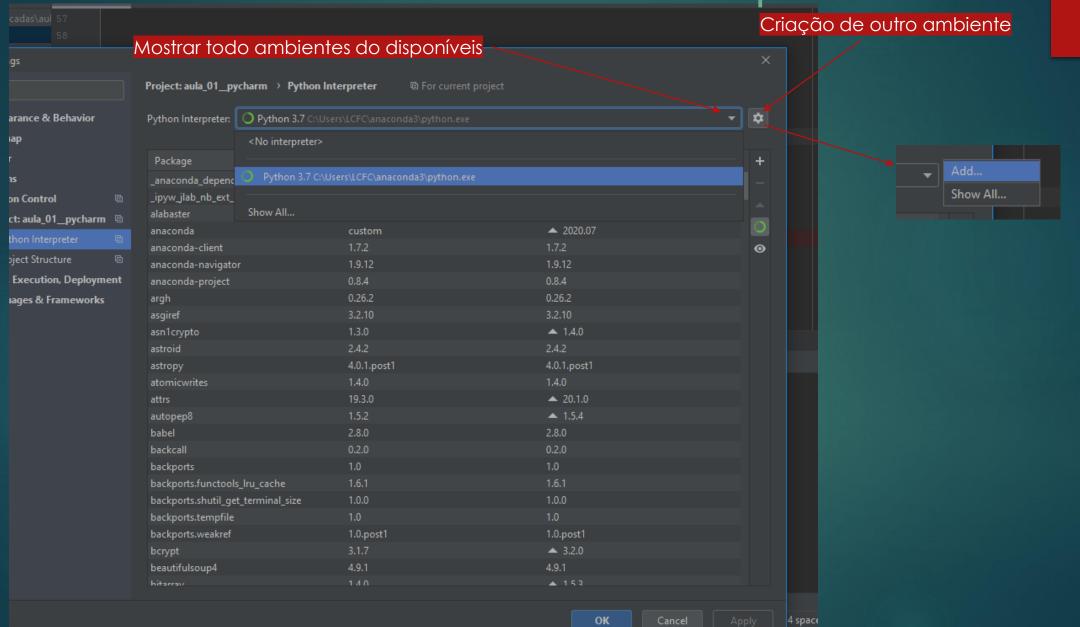
Verificar arquivos , locais e contextos que uma função/classe é usada

7. Ambientes: pacotes Python



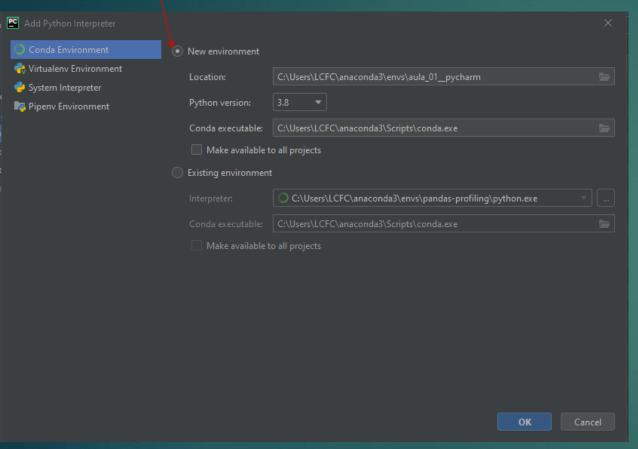


9. Ambientes: mostrar disponíveis

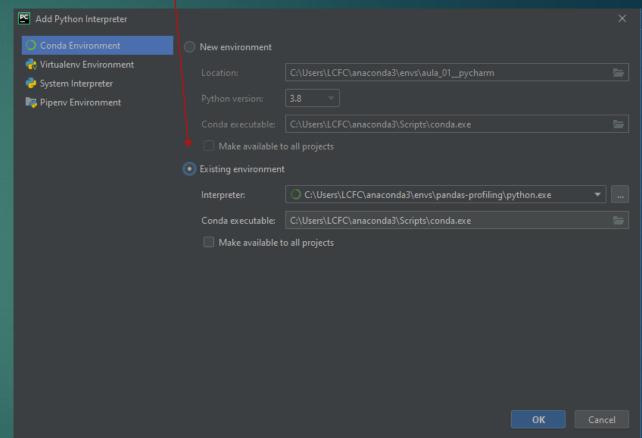


9. Ambientes: criação (conda, venv)

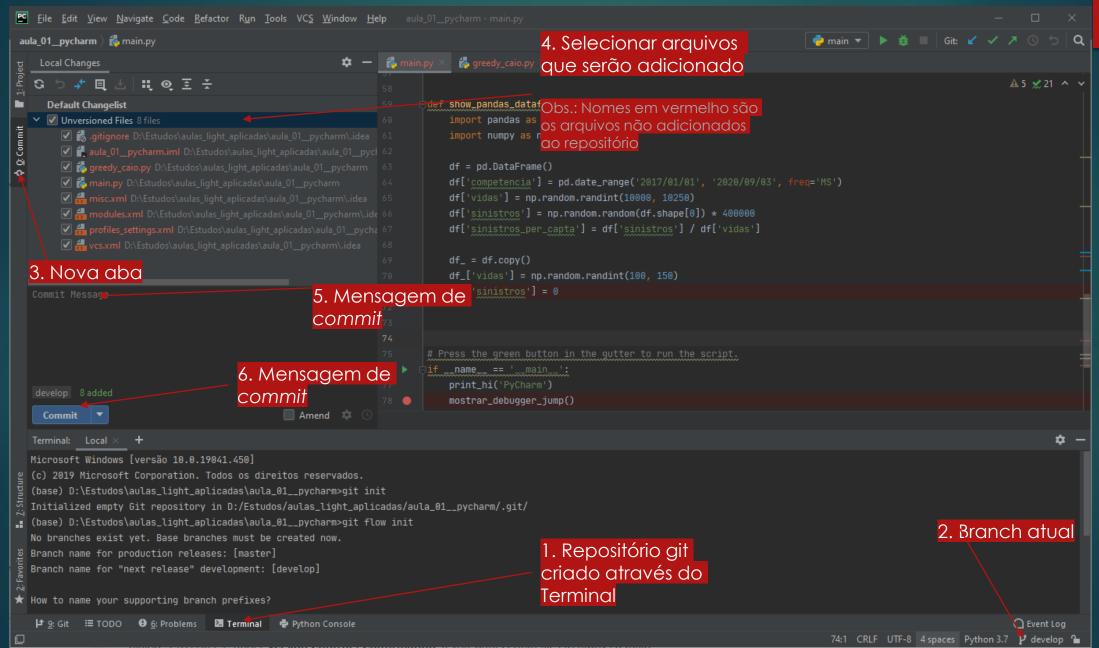
Criar novo ambiente



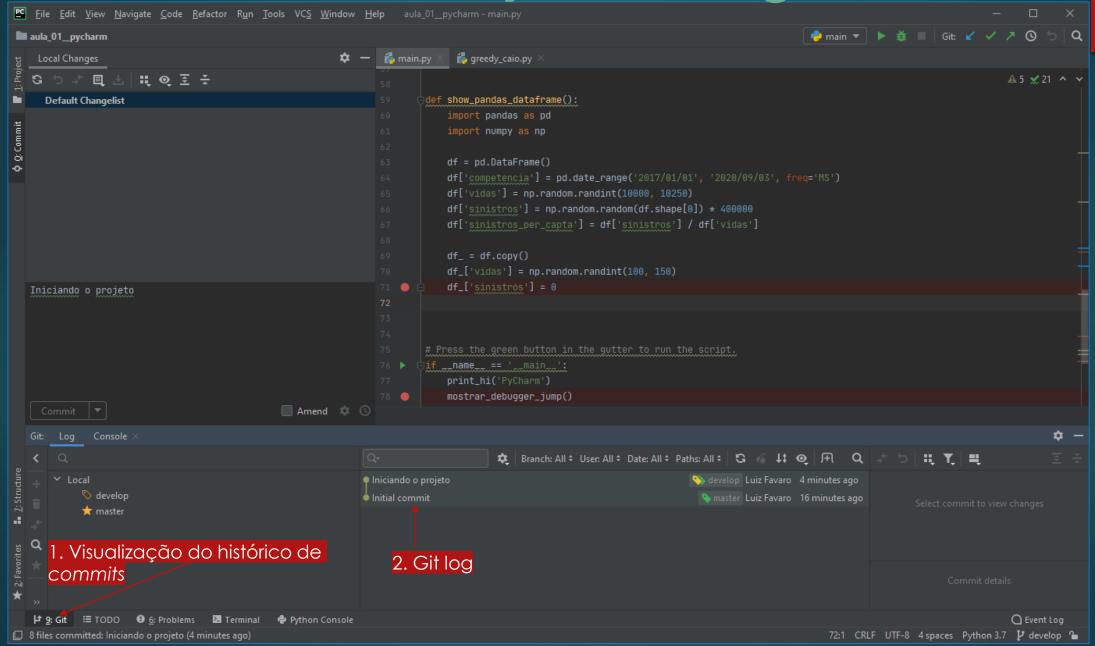
Procurar e trocar para outro ambiente já existente



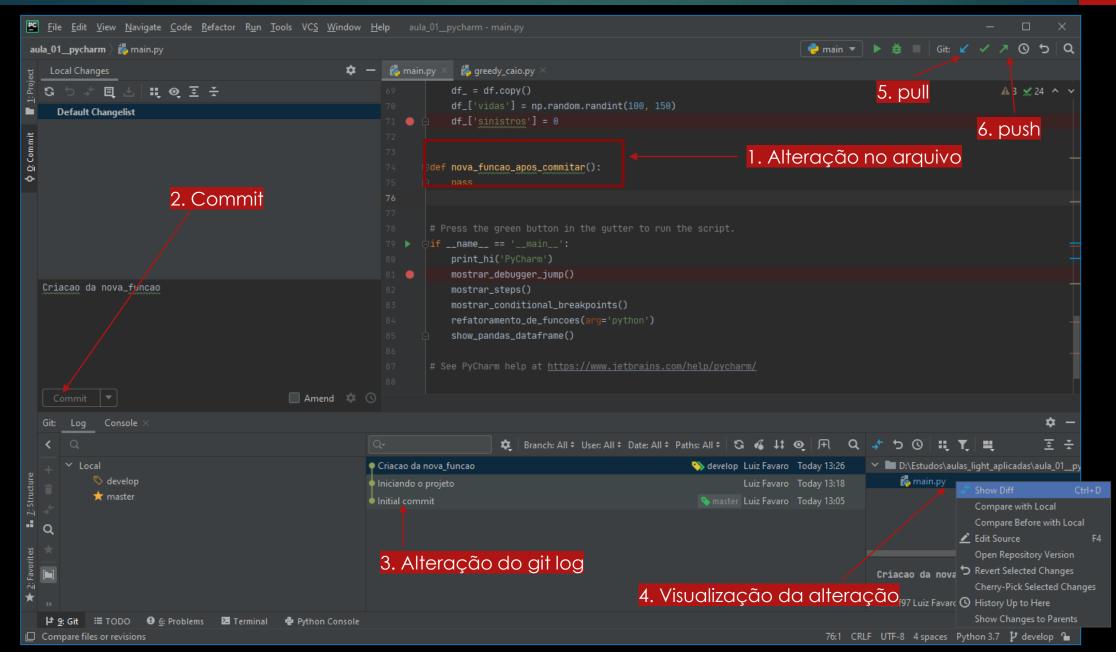
10. Git: criação do repositório local



10. Git: visualização do log



10. Git: visualização da alteração do arquivo



10. Git: visualização da alteração do arquivo

```
main.py (D:\Estudos\aulas_light_aplicadas\aula_01_pycharm)
                                                                                                                                                            Highlight words ▼
            Side-by-side viewer ▼
                                  Do not ignore ▼
                                                                                                                                                              1 difference

♠ 151f77e2f06d97ad6e6fe550b33fa123647bb3d7

                                                                                      fc32cf97a237abe6a7d7ac6660e9b3db52a98589
     df = pd.DataFrame()
                                                                                               df = pd.DataFrame()
     df['competencia'] = pd.date_range('2017/01/01', '2020/09/03', freg='Ms
                                                                                                df['competencia'] = pd.date_range('2017/01/01', '2020/09/03', freq='MS'
     df['vidas'] = np.random.randint(10000, 10250)
                                                                                               df['vidas'] = np.random.randint(10000, 10250)
     df['sinistros'] = np.random.random(df.shape[0]) * 400000
                                                                                               df['sinistros'] = np.random.random(df.shape[0]) * 400000
     df['sinistros_per_capta'] = df['sinistros'] / df['vidas']
                                                                                               df['sinistros_per_capta'] = df['sinistros'] / df['vidas']
     df_ = df.copy()
                                                                                               df_ = df.copy()
     df_['vidas'] = np.random.randint(100, 150)
                                                                                               df_['vidas'] = np.random.randint(100, 150)
     df_['sinistros'] = 0
                                                                                               df_['sinistros'] = 0
                                                                                                                              2. Arquivo após o commit
             1. Arquivo antes do commit
                                                                                            def nova_funcao_apos_commitar():
 # Press the green button in the gutter to run the script.
 if __name__ == '__main__':
     print_hi('PyCharm')
     mostrar_debugger_jump()
                                                                                            # Press the green button in the gutter to run the script.
                                                    Visualização da alteração
     mostrar_steps()
                                                                                            if __name__ == '__main__':
     mostrar_conditional_breakpoints()
                                                                                                print_hi('PyCharm')
     refatoramento_de_funcoes(arg='python')
                                                                                               mostrar_debugger_jump()
     show_pandas_dataframe()
                                                                                               mostrar_steps()
                                                                                               mostrar_conditional_breakpoints()
                                                                                               refatoramento_de_funcoes(arg='python')
                                                                                                show_pandas_dataframe()
```

11. Produtividade: Lista de atalhos de teclado

<u>e informações</u> sobre os argumentos da

função

PyCharm Default Keymap

or variable)

External Doc

Generate code...

Surround with...

Reformat code

Optimize imports

Auto-indent line(s)

Paste from clipboard

Delete line at caret

Delete to word end

Delete to word start

Smart line join

Smart line split

Start new line

Paste from recent buffers...

Override methods

Brief Info

Complete statement

Ctrl + Space

Ctrl + P

Ctrl + Q

Shift + F1

Ctrl + F1

Ctrl + 0

Ctrl + /

Ctrl + W

Alt + Enter

Ctrl + Alt + L

Ctrl + Alt + O

Ctrl + Alt + I

Tab / Shift + Tab

Ctrl + Shift + V

Ctrl + Shift + J

Ctrl + Enter

Shift + Enter

Ctrl + Delete

Ctrl + Shift + U

Ctrl + Backspace

Ctrl + D

Ctrl + Y

Ctrl + X or Shift + Delete

Ctrl + C or Ctrl + Insert

Ctrl + V or Shift + Insert

Alt + Insert

Ctrl + Alt + T

Ctrl + Shift + /

Ctrl + Shift + W

Ctrl + Shift + 1/f

Ctrl + Alt + Space

Ctrl + Shift + Enter

Ctrl + mouse over code



Basic code completion (the name of any class, method

Class name completion (the name of any project class

Parameter info (within method call arguments)

Show descriptions of error or warning at caret

Comment/uncomment with line comment

Comment/uncomment with block comment

Select successively increasing code blocks

Decrease current selection to previous state

Cut current line or selected block to clipboard

Duplicate current line or selected block

Copy current line or selected block to clipboard

Toggle case for word at caret or selected block

Show intention actions and quick-fixes

Select till code block end/start

Indent/unindent selected lines

independently of current imports)

Quick documentation lookup





PyCharm Default Keymap





Rullilly	
Alt + Shift + F10	Select configuration and run
Alt + Shift + F9	Select configuration and debug
Shift + F10	Run
Shift + F9	Debug
Ctrl + Shift + F10	Run context configuration from editor
Ctrl+Alt+R	Run manage.py task
	·

Debugging

Dunning

F8	Step over
F7	Step into
Shift + F8	Step out
Alt + F9	Run to cursor
Alt + F8	Evaluate expression
Ctrl + Alt + F8	Quick evaluate expression
F9	Resume program
Ctrl + F8	Toggle breakpoint
Ctrl + Shift + F8	View breakpoints

Navigation

Ctrl + N	Go to class
Ctrl + Shift + N	Go to file
Ctrl + Alt + Shift + N	Go to symbol
Alt + Right/Left	Go to next/previous editor tab
F12	Go back to previous tool window
Esc	Go to editor (from tool window)
Shift + Esc	Hide active or last active window
Ctrl + Shift + F4	Close active run/messages/find/ tab
Ctrl + G	Go to line
Ctrl + E	Recent files popup
Ctrl + Alt + Left/Right	Navigate back/forward
Ctrl + Shift + Backspace	Navigate to last edit location
Alt + F1	Select current file or symbol in any view
Ctrl + B or Ctrl + Click	Go to declaration
Ctrl + Alt + B	Go to implementation(s)
Ctrl + Shift + I	Open quick definition lookup

12. Outras Features

HTTPS://WWW.JETBRAINS.COM/PYCHARM/FEATURES/