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Anaconda Enterprise

1. Open your browser and enter the anaconda website

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Version 5.2 | Release Date: May 30, 2018

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Anaconda 5.2 For macOS Installer

Python 3.6 version \*

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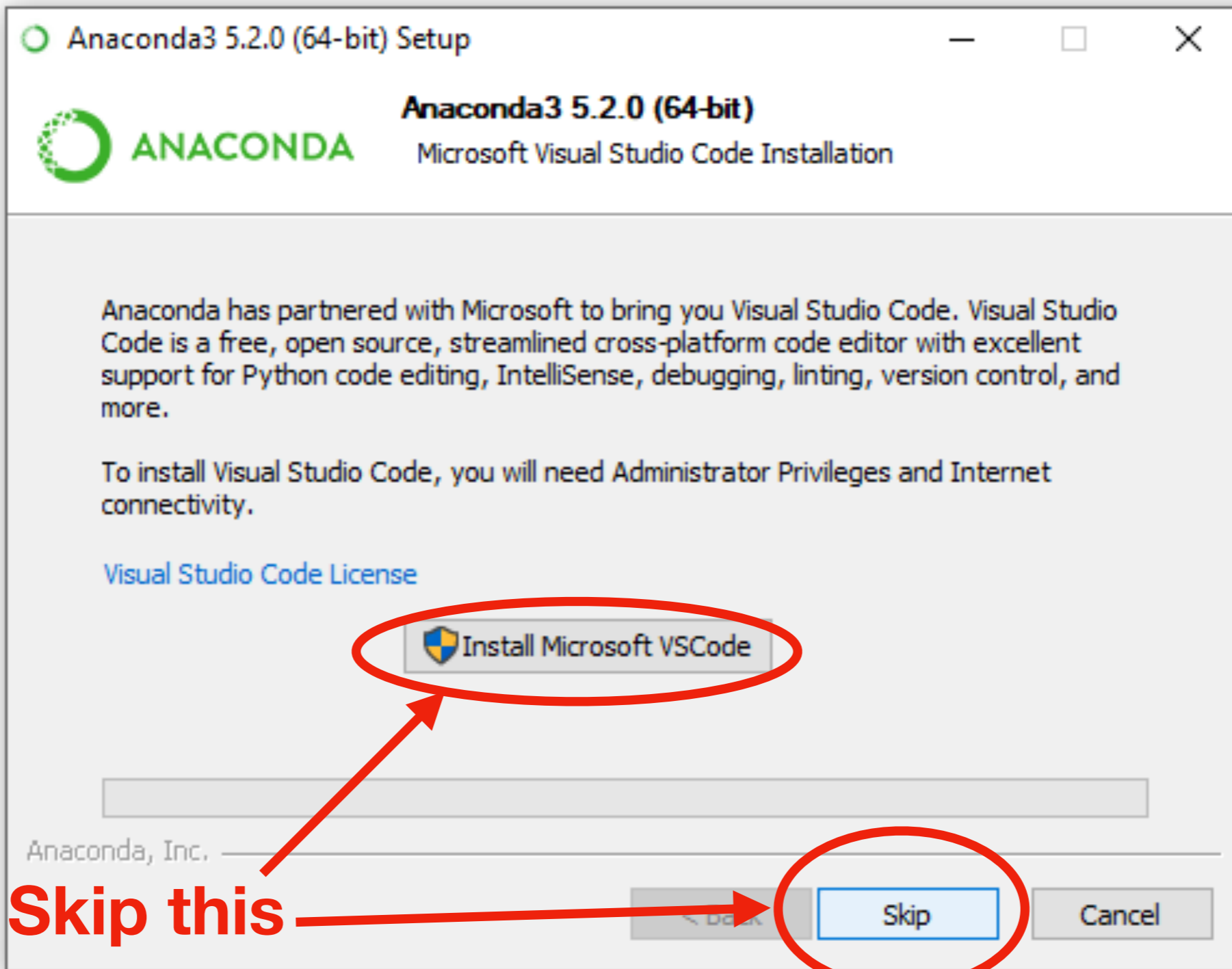
[64-Bit Graphical Installer \(613 MB\)](#) ⓘ  
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Python 2.7 version \*

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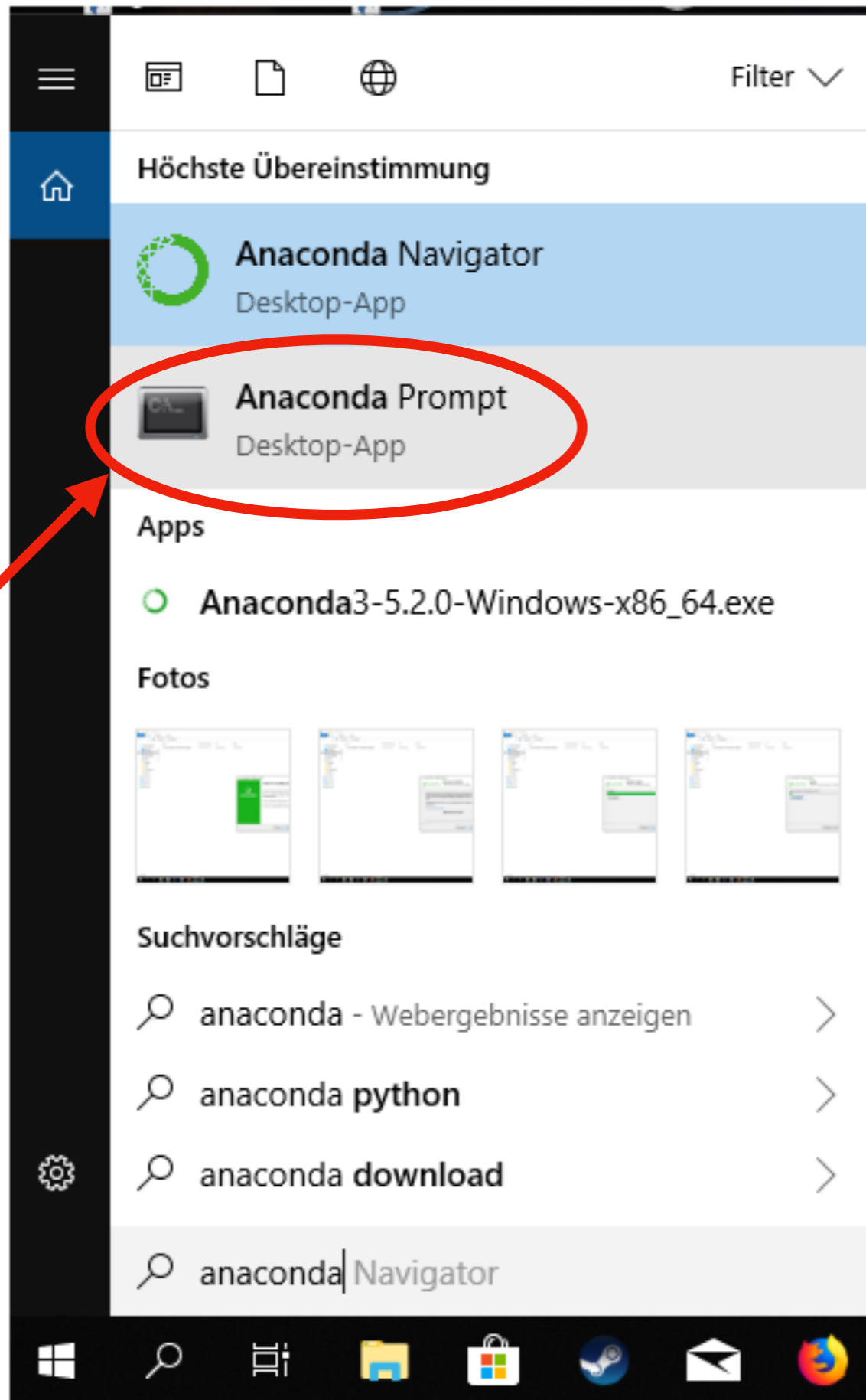
- Depending on your operating system, a .sh (linux), .pkg (mac OS) or .exe (Windows) will be downloaded.
- Execute the respective files and follow the installation instructions
- When installing anaconda, skip the last part where it suggests you to install Microsoft VSCode



- Mac OS and Linux:
  1. Go into the folder where you saved the jupyter notebook (.ipynb data format)
  2. Open the terminal
  3. Type: 'jupyter notebook'
  4. A window in your web browser will open where you can click on the notebooks or create new ones (see slide 9)

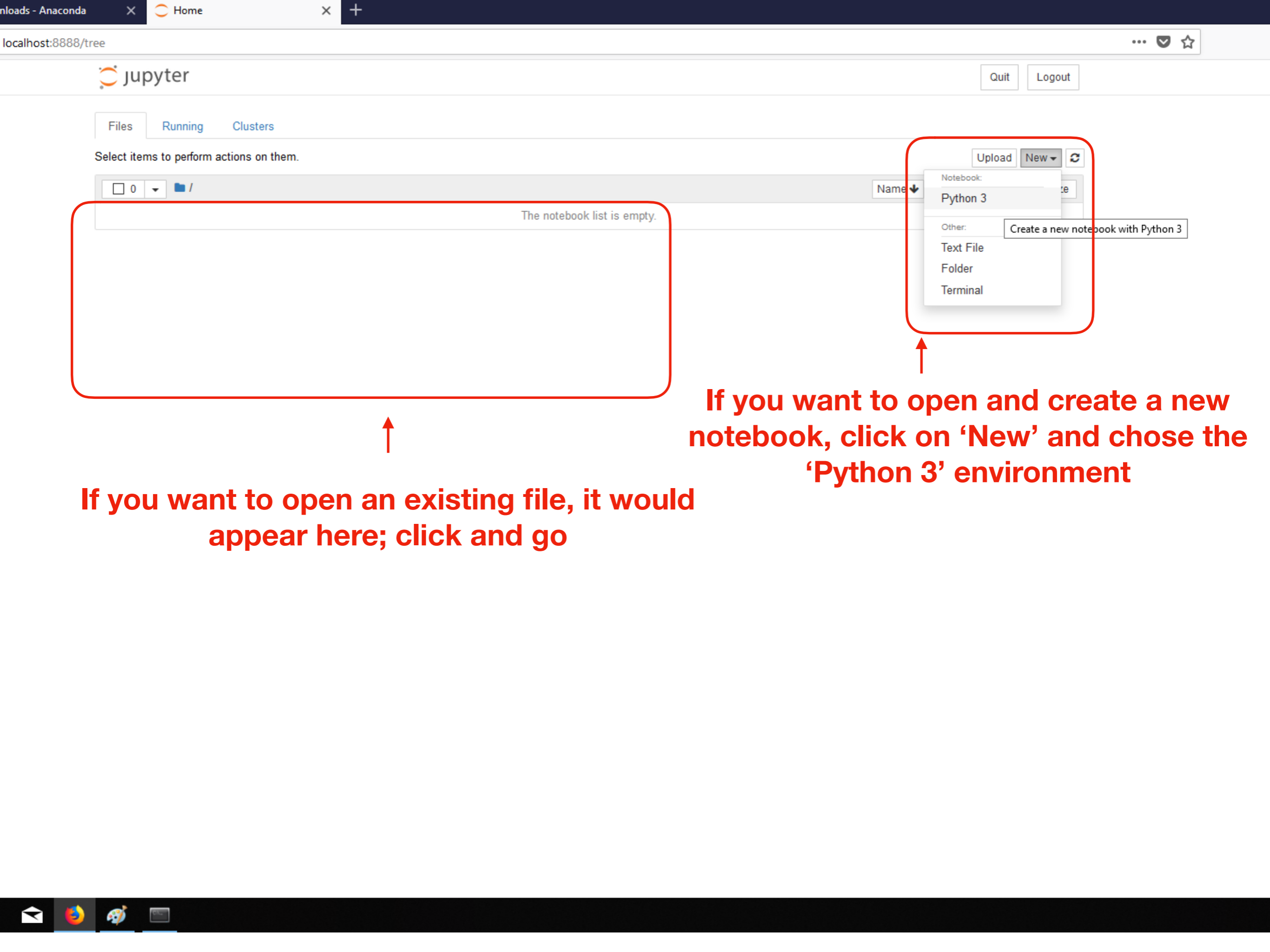
- Windows OS:
  1. Open the Windows menu bar
  2. Search for: 'anaconda prompt'
  3. A terminal will open
  4. Switch into the folder you saved the .ipynb files with 'cd FOLDER'
  5. Type: 'jupyter notebook'

Open





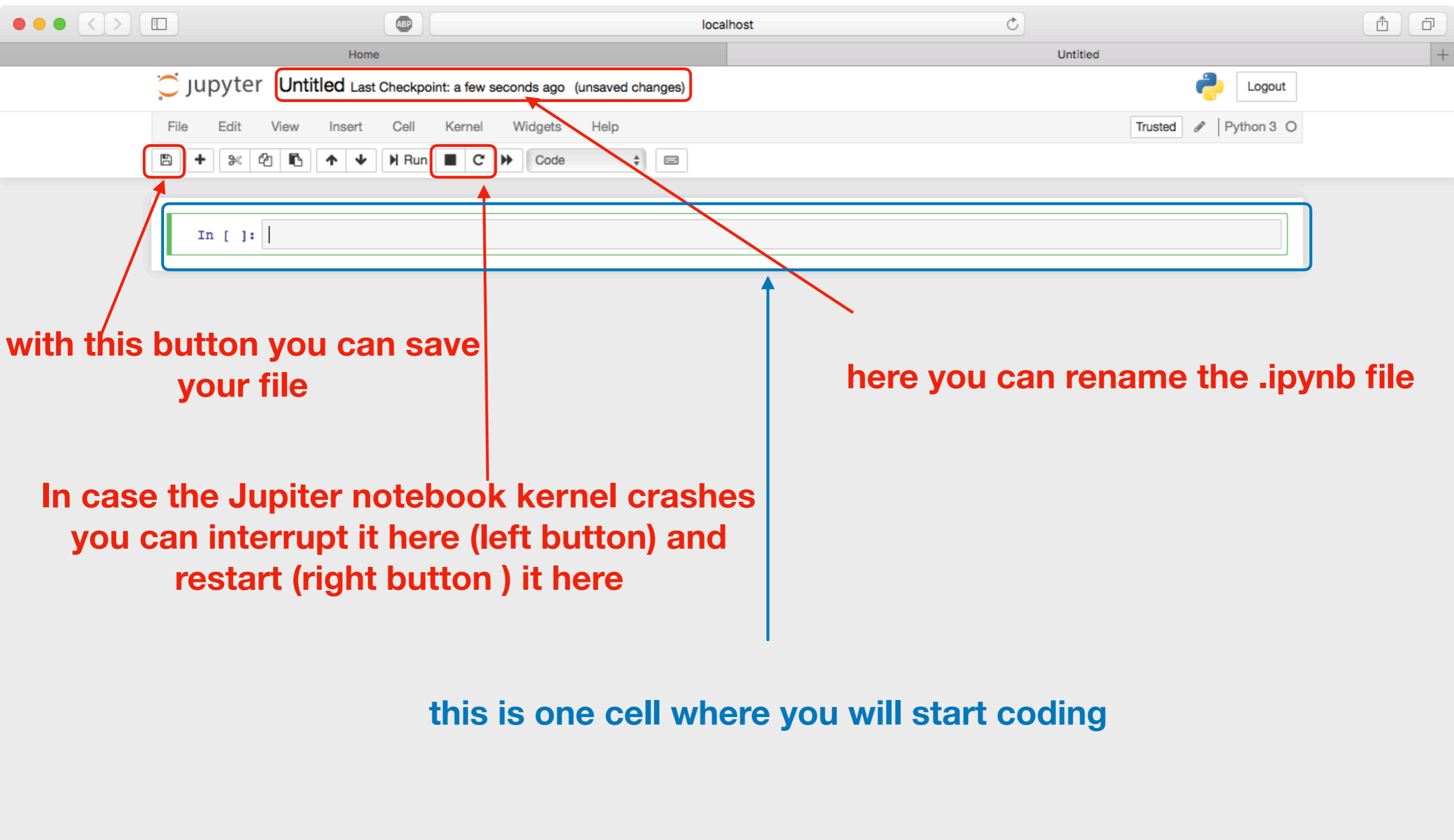




**If you want to open an existing file, it would appear here; click and go**

**If you want to open and create a new notebook, click on 'New' and chose the 'Python 3' environment**

# a new notebook - navigation



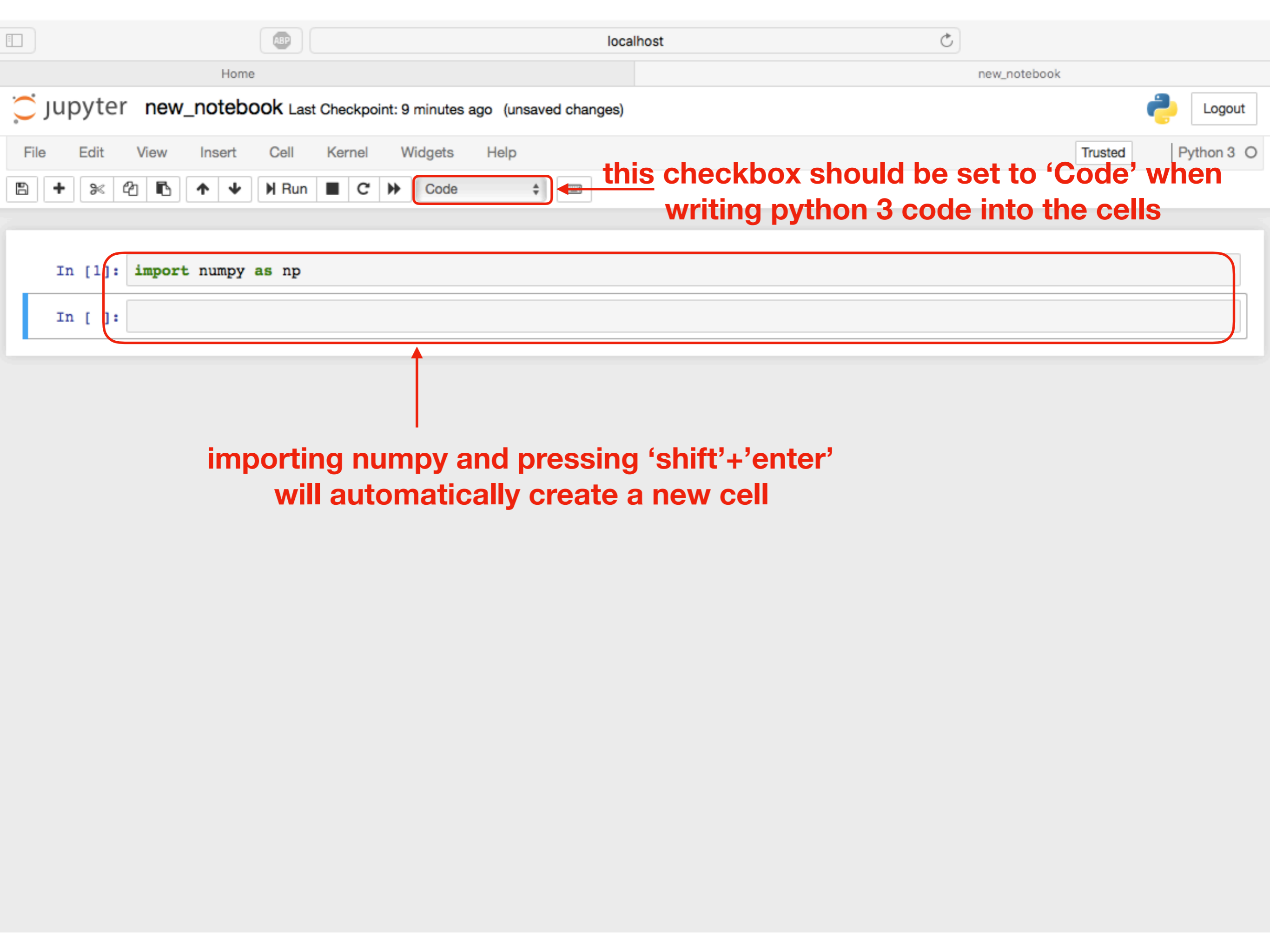
The image shows a screenshot of the Jupyter Notebook interface. At the top, the browser address bar shows 'localhost'. The Jupyter logo and 'Untitled' are visible. A red box highlights the title bar area with the text 'Untitled Last Checkpoint: a few seconds ago (unsaved changes)'. Below this is a menu bar with 'File', 'Edit', 'View', 'Insert', 'Cell', 'Kernel', 'Widgets', and 'Help'. A toolbar contains icons for saving, adding, deleting, and running cells. A red box highlights the save icon (floppy disk) and the interrupt (stop) and restart (refresh) buttons. A blue box highlights the code input cell, which contains 'In [ ]: |'. Red arrows point from the save icon to the text 'with this button you can save your file'. Red arrows point from the interrupt and restart buttons to the text 'In case the Jupyter notebook kernel crashes you can interrupt it here (left button) and restart (right button) it here'. A red arrow points from the title bar area to the text 'here you can rename the .ipynb file'. A blue arrow points from the code input cell to the text 'this is one cell where you will start coding'.

with this button you can save your file

In case the Jupyter notebook kernel crashes you can interrupt it here (left button) and restart (right button) it here

here you can rename the .ipynb file

this is one cell where you will start coding



**this checkbox should be set to 'Code' when writing python 3 code into the cells**

**importing numpy and pressing 'shift'+ 'enter' will automatically create a new cell**

The image shows a Jupyter Notebook interface. At the top, there is a browser address bar with 'localhost' and a refresh button. Below that, the notebook title is 'new\_notebook' and it shows 'Last Checkpoint: 10 minutes ago (unsaved changes)'. The Jupyter logo is on the left, and a 'Logout' button is on the right. A menu bar contains 'File', 'Edit', 'View', 'Insert', 'Cell', 'Kernel', 'Widgets', and 'Help'. On the right of the menu bar, there is a 'Trusted' status and 'Python 3' with a dropdown arrow. Below the menu bar is a toolbar with icons for saving, adding, deleting, copying, pasting, and running code. The main area contains two code cells. The first cell is labeled 'In [1]:' and contains the code 'import numpy as np'. The second cell is labeled 'In [ ]:' and contains the code '#reference line'. The second cell is highlighted with a green border, and a red arrow points to it from the text block below.

**Note that the edge of a cell is colored green, when writing in it. This color indicates that operations are being done within the cell**

localhost

Home new\_notebook

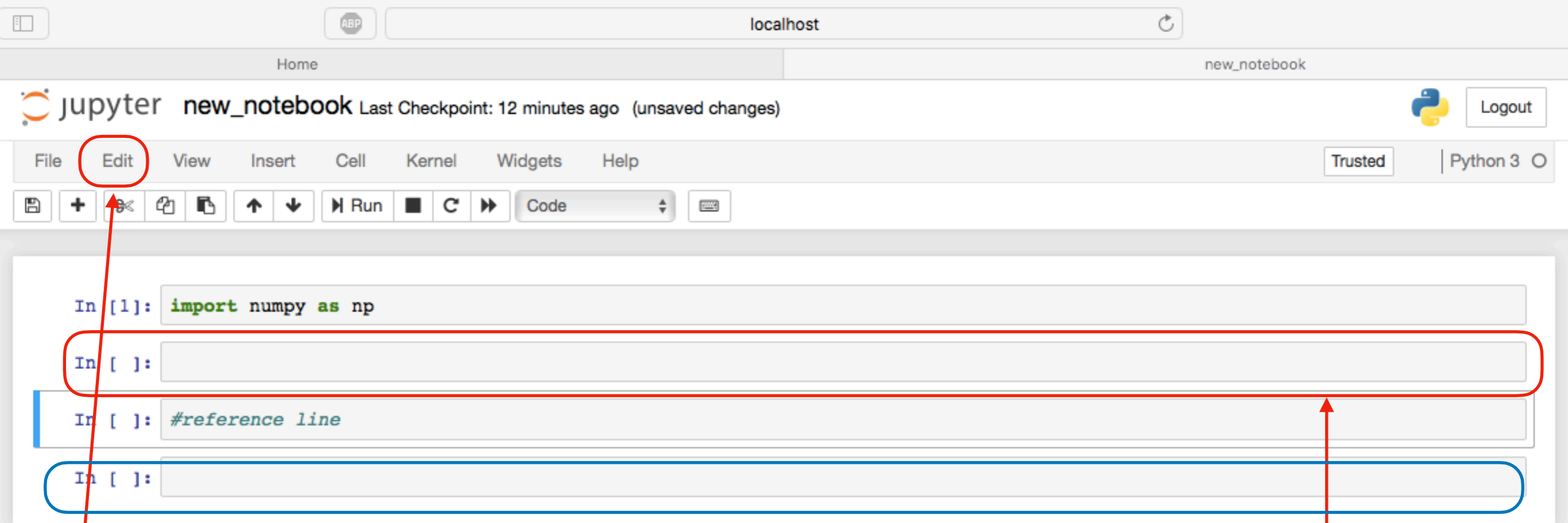
jupyter new\_notebook Last Checkpoint: 11 minutes ago (unsaved changes) Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

In [1]: `import numpy as np`

In [ ]: `#reference line`

By pressing into the the line on the left of the cell, the manipulation within the cell is deactivated. Note how the color of the edge turns blue. This color indicates that not operations, regarding the cells itself can be done. Also note the mark of the line as 'reference line' in the following slide.



By pressing 'b' on the keyboard, a new line below the reference line is created

By pressing 'a' on the keyboard, a new line on top the reference line is created

Note that the box around the reference line is still marked as blue, therefore, if you want to work in one cell you created, click into it, such that the box around it becomes green. If you want to perform cell operations with respect to the new cells, activate the respective cell, sah that the box around it appears blue, and do as you wish.

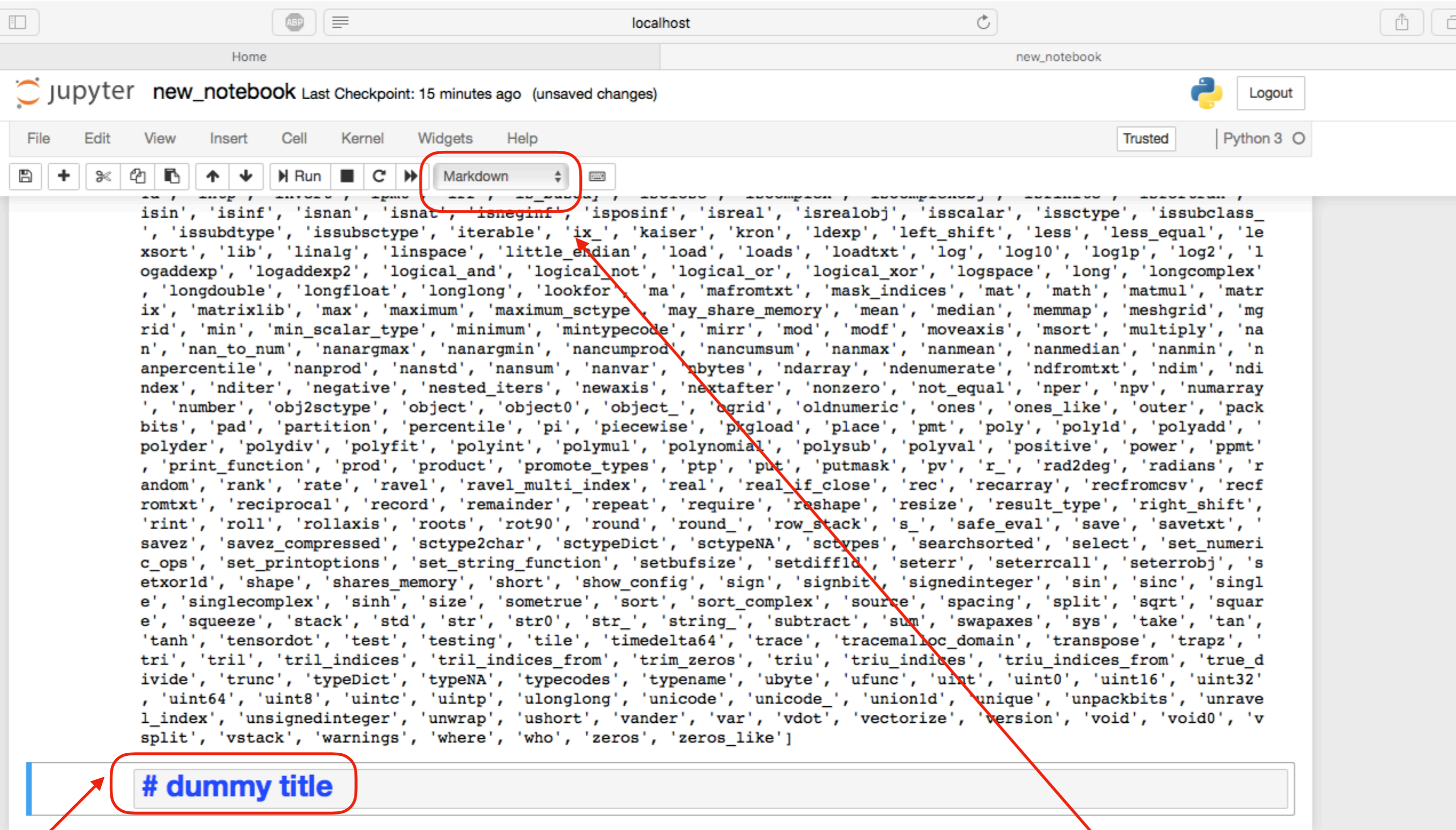
By pressing 'x' and a cell, where cell operations are activated (blue edge), the cell can be deleted. If you accidentally delete a cell and want to undo it, click on edit and 'Undo Delete Cells'. This will restore the deleted cell.

```
In [1]: import numpy as np
```

```
In [2]: print(dir(np))
```

```
{'ALLOW_THREADS', 'AxisError', 'BUFSIZE', 'CLIP', 'ComplexWarning', 'DataSource', 'ERR_CALL', 'ERR_DEFAULT', 'ERR_IGNORE', 'ERR_LOG', 'ERR_PRINT', 'ERR_RAISE', 'ERR_WARN', 'FLOATING_POINT_SUPPORT', 'FPE_DIVIDEBYZERO', 'FPE_INVALID', 'FPE_OVERFLOW', 'FPE_UNDERFLOW', 'False_', 'Inf', 'Infinity', 'MAXDIMS', 'MAY_SHARE_BOUNDS', 'MAY_SHARE_EXACT', 'MachAr', 'ModuleDeprecationWarning', 'NAN', 'NINF', 'NZERO', 'NaN', 'PINF', 'PZERO', 'PackageLoader', 'RAISE', 'RankWarning', 'SHIFT_DIVIDEBYZERO', 'SHIFT_INVALID', 'SHIFT_OVERFLOW', 'SHIFT_UNDERFLOW', 'ScalarType', 'Tester', 'TooHardError', 'True_', 'UFUNC_BUFSIZE_DEFAULT', 'UFUNC_PYVALS_NAME', 'VisibleDeprecationWarning', 'WRAP', 'NoValue', '__NUMPY_SETUP__', '__all__', '__builtins__', '__cached__', '__config__', '__doc__', '__file__', '__git_revision__', '__loader__', '__mkl_version__', '__name__', '__package__', '__path__', '__spec__', '__version__', '__distributor_init__', 'global_', 'import_tools', 'mat', 'mklinit', 'numpy_tester', 'abs', 'absolute', 'absolute_import', 'add', 'add_docstring', 'add_newdoc', 'add_newdoc_ufunc', 'add_newdocs', 'alen', 'all', 'allclose', 'alltrue', 'amax', 'amin', 'angle', 'any', 'append', 'apply_along_axis', 'apply_over_axes', 'arange', 'arccos', 'arccosh', 'arcsin', 'arcsinh', 'arctan', 'arctan2', 'arctanh', 'argmax', 'argmin', 'argpartition', 'argsort', 'argwhere', 'around', 'array', 'array2string', 'array_equal', 'array_equiv', 'array_repr', 'array_split', 'array_str', 'asanyarray', 'asarray', 'asarray_chkfinite', 'ascontiguousarray', 'asfarray', 'asfortranarray', 'asmatrix', 'asscalar', 'atleast_1d', 'atleast_2d', 'atleast_3d', 'average', 'bartlett', 'base_repr', 'bench', 'binary_repr', 'bincount', 'bitwise_and', 'bitwise_not', 'bitwise_or', 'bitwise_xor', 'blackman', 'block', 'bmat', 'bool', 'bool8', 'bool_', 'broadcast', 'broadcast_arrays', 'broadcast_to', 'busday_count', 'busday_offset', 'busdaycalendar', 'byte', 'byte_bounds', 'bytes0', 'bytes_', 'c_', 'can_cast', 'cast', 'cbrt', 'cdouble', 'ceil', 'cfloat', 'char', 'character', 'chararray', 'choose', 'clip', 'clongdouble', 'clongfloat', 'column_stack', 'common_type', 'compare_chararrays', 'compat', 'complex', 'complex128', 'complex256', 'complex64', 'complex_', 'complexfloating', 'compress', 'concatenate', 'conj', 'conjugate', 'convolve', 'copy', 'copysign', 'copyto', 'core', 'corrcoef', 'correlate', 'cos', 'cosh', 'count_nonzero', 'cov', 'cross', 'csingle', 'ctypeslib', 'cumprod', 'cumproduct', 'cumsum', 'datetime64', 'datetime_as_string', 'datetime_data', 'deg2rad', 'degrees', 'delete', 'deprecate', 'deprecate_with_doc', 'diag', 'diag_indices', 'diag_indices_from', 'diagflat', 'diagonal', 'diff', 'digitize', 'disp', 'divide', 'division', 'divmod', 'dot', 'double', 'dsplit', 'dstack', 'dtype', 'e', 'ediff1d', 'einsum', 'einsum_path', 'emath', 'empty', 'empty_like', 'equal', 'errstate', 'euler_gamma', 'exp', 'exp2', 'expand_dims', 'expm1', 'extract', 'eye', 'fabs', 'fastCopyAndTranspose', 'fft', 'fill_diagonal', 'find_common_type', 'finfo', 'fix', 'flatiter', 'flatnonzero', 'flexible', 'flip', 'fliplr', 'flipud', 'float', 'float128', 'float16', 'float32', 'float64', 'float_', 'float_power', 'floating', 'floor', 'floor_divide', 'fmax', 'fmin', 'fmod', 'format_float_positional', 'format_float_scientific', 'format_parser', 'frexp', 'frombuffer', 'fromfile', 'fromfunction', 'fromiter', 'frompyfunc', 'fromregex', 'fromstring', 'full', 'full_like', 'fv', 'generic', 'genfromtxt', 'geomspace', 'get_array_wrap', 'get_include', 'get_printoptions', 'getbufsize', 'geterr', 'geterrcall', 'geterrobj', 'gradient', 'greater', 'greater_equal', 'half', 'hamming', 'hanning', 'heaviside', 'histogram', 'histogram2d', 'histogramdd', 'hstack', 'hypot'
```

**Giving a print order in a cell and pressing 'shit'+enter' will yield the result directly under the active cell. This reflects a nice feature of the jupyter notebooks, namely that the result of a piece of code can be seen directly, which makes it very comprehensive how parts of a code perform different things. Of course in the end one can always write a script without fragmenting everything into cells, for the coding process itself however, especially in scientific analysis, this comes in handy. Here all the elements within numpy are printed.**



**Setting a #+'space' before the text, will create a title like object. This is nice for structuring your exercises**

**'Code' is not the only option in this checkbox. When writing longer comments for example which should be detached from the code (not only commented out with #text for one line or "text" more lines), on can use a cell to activate 'Markdown' within it. Just start writing your text and 'shift'+ 'enter' when done to get a plane text within this cell.**



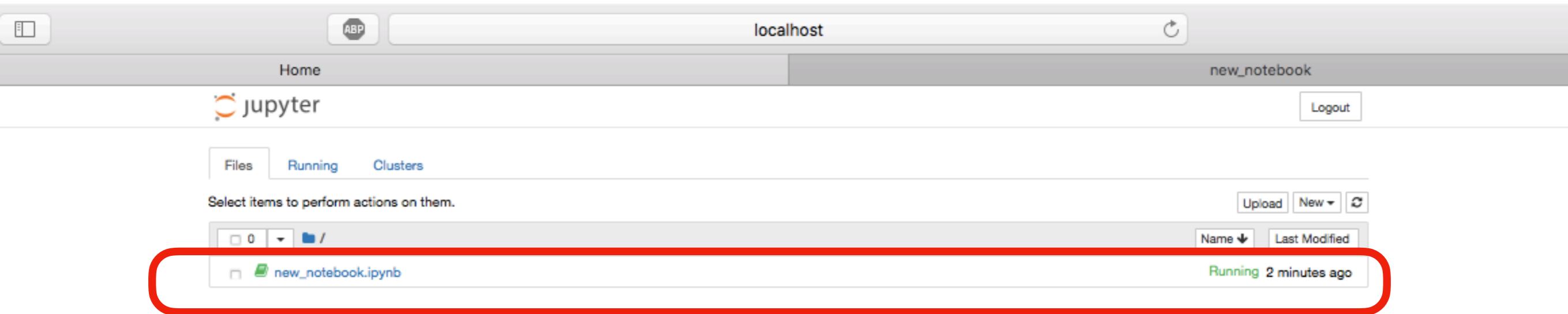
```
ogaddexp', 'logaddexp2', 'logical_and', 'logical_not', 'logical_or', 'logical_xor', 'logspace', 'long', 'longcomplex',
'longdouble', 'longfloat', 'longlong', 'lookfor', 'ma', 'mafromtxt', 'mask_indices', 'mat', 'math', 'matmul', 'matr
ix', 'matrixlib', 'max', 'maximum', 'maximum_sctype', 'may_share_memory', 'mean', 'median', 'memmap', 'meshgrid', 'mg
rid', 'min', 'min_scalar_type', 'minimum', 'mintypecode', 'mirr', 'mod', 'modf', 'moveaxis', 'msort', 'multiply', 'na
n', 'nan_to_num', 'nanargmax', 'nanargmin', 'nancumprod', 'nancumsum', 'nanmax', 'nanmean', 'nanmedian', 'nanmin', 'n
anpercentile', 'nanprod', 'nanstd', 'nansum', 'nanvar', 'nbytes', 'ndarray', 'ndenumerate', 'ndfromtxt', 'ndim', 'ndi
ndex', 'nditer', 'negative', 'nested_iters', 'newaxis', 'nextafter', 'nonzero', 'not_equal', 'nper', 'npv', 'numarray
', 'number', 'obj2sctype', 'object', 'object0', 'object_', 'ogrid', 'oldnumeric', 'ones', 'ones_like', 'outer', 'pack
bits', 'pad', 'partition', 'percentile', 'pi', 'piecewise', 'pkgload', 'place', 'pmt', 'poly', 'polyld', 'polyadd', '
polyder', 'polydiv', 'polyfit', 'polyint', 'polymul', 'polynomial', 'polysub', 'polyval', 'positive', 'power', 'ppmt'
, 'print_function', 'prod', 'product', 'promote_types', 'ptp', 'put', 'putmask', 'pv', 'r_', 'rad2deg', 'radians', 'r
andom', 'rank', 'rate', 'ravel', 'ravel_multi_index', 'real', 'real_if_close', 'rec', 'recarray', 'recfromcsv', 'recf
romtxt', 'reciprocal', 'record', 'remainder', 'repeat', 'require', 'reshape', 'resize', 'result_type', 'right_shift',
'rint', 'roll', 'rollaxis', 'roots', 'rot90', 'round', 'round_', 'row_stack', 's_', 'safe_eval', 'save', 'savetxt', '
savez', 'savez_compressed', 'sctype2char', 'sctypeDict', 'sctypeNA', 'sctypes', 'searchsorted', 'select', 'set_numeri
c_ops', 'set_printoptions', 'set_string_function', 'setbufsize', 'setdiffld', 'seterr', 'seterrcall', 'seterrobj', 's
etxorld', 'shape', 'shares_memory', 'short', 'show_config', 'sign', 'signbit', 'signedinteger', 'sin', 'sinc', 'singl
e', 'singlecomplex', 'sinh', 'size', 'sometrue', 'sort', 'sort_complex', 'source', 'spacing', 'split', 'sqrt', 'squar
e', 'squeeze', 'stack', 'std', 'str', 'str0', 'str_', 'string_', 'subtract', 'sum', 'swapaxes', 'sys', 'take', 'tan',
'tanh', 'tensordot', 'test', 'testing', 'tile', 'timedelta64', 'trace', 'tracemalloc_domain', 'transpose', 'trapz', '
tri', 'tril', 'tril_indices', 'tril_indices_from', 'trim_zeros', 'triu', 'triu_indices', 'triu_indices_from', 'true_d
ivide', 'trunc', 'typeDict', 'typeNA', 'typecodes', 'typename', 'ubyte', 'ufunc', 'uint', 'uint0', 'uint16', 'uint32'
, 'uint64', 'uint8', 'uintc', 'uintp', 'ulonglong', 'unicode', 'unicode_', 'unionld', 'unique', 'unpackbits', 'unrave
l_index', 'unsignedinteger', 'unwrap', 'ushort', 'vander', 'var', 'vdot', 'vectorize', 'version', 'void', 'void0', 'v
split', 'vstack', 'warnings', 'where', 'who', 'zeros', 'zeros_like']
```

**dummy title** This is what the dummy title looks like

```
In [ ]:
```

A new cell also opens with 'Code' as standard mode

## a new notebook - navigation



The screenshot shows the JupyterLab interface. At the top, there is a browser window with the address bar showing 'localhost'. Below the browser, the JupyterLab header includes the 'jupyter' logo and a 'Logout' button. The main interface has three tabs: 'Files', 'Running', and 'Clusters'. Below the tabs, there is a message 'Select items to perform actions on them.' and buttons for 'Upload', 'New', and a refresh icon. A file browser shows a directory with one file, 'new\_notebook.ipynb', which is highlighted with a red rounded rectangle. The file is shown with a green notebook icon, a checkbox, and the status 'Running 2 minutes ago'. A red arrow points upwards from the text below to the file entry.

**if you go back into the directory where you started Jupiter notebook, the notebook will appear here, ready to be opened and worked with again**