# Using Jupyter notebooks

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## Lecture Objectives

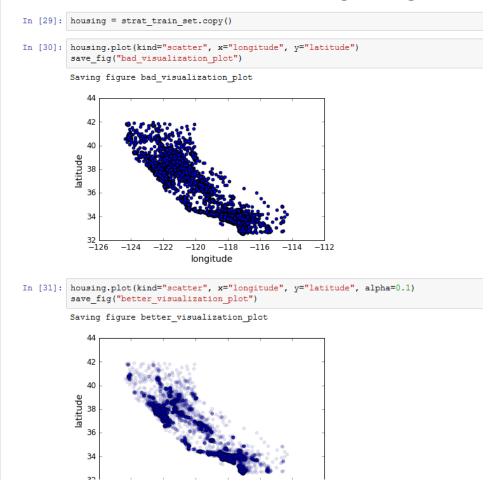
After this lecture, you should be able to:

start using Jupyter notebooks for your Python code

## Jupyter notebooks

Jupyter notebooks, like R markdown files, let you combine text and Python code.

#### Discover and visualize the data to gain insights ¶



## Structure of a notebook

markdown cell A notebook is a sequence of "cells" # Discover and visualize the data to gain insights In [29]: housing = strat train set.copy() In [30]: housing.plot(kind="scatter", x="longitude", y="latitude") save fig("bad visualization plot") Saving figure bad visualization plot code cell 42 40 38 34 -124-122-120-118-116-114longitude In [31]: housing.plot(kind="scatter", x="longitude", y="latitude", alpha=0.1) save fig("better visualization plot")

### What is markdown?

# Markdown is a standardized text-based syntax for formatting.

#### raw text

#### examples of markdown:

# Large heading

\*\*bold text\*\*

> quoted text

- list item 1
- list item 2

#### after processing:

examples of markdown:

## Large heading

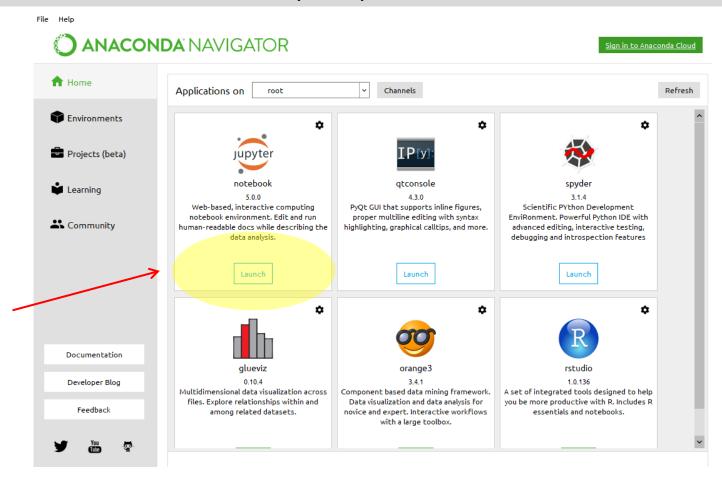
bold text

quoted text

- list item 1
- list item 2

## Starting Jupyter notebook

Launch Jupyter notebook using the navigator, or type "jupyter notebook" at the Anacondat prompt



## Summary

- □ With Jupyter notebooks code and text can be combined.
- Assignment for this class will often ask you to submit a Jupyter notebook.
- ☐ Some students like coding in the notebook environment; other prefer an IDE.