assignment1

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```
In [1]: %matplotlib inline
        import matplotlib
        import seaborn as sns
        sns.set()
        matplotlib.rcParams['figure.dpi'] = 144
```

```
In [2]: from static_grader import grader
```

1 Assignment 1: Introduction to the Grader

Each miniproject comes in the form of a Jupyter notebook, like this one. This first section will give a high-level description of the problem, as well as link to any data that you may need. Following that, there will be a series of questions. Each will have a cell with a call to the `grader.score` function. You job is to prepare an answer to be submitted to this function. Sometimes that answer will be in the form of a static result; sometimes it will be a function that will process input from the grader. The `grader.score` function will submit your answer to the grader and display a grade in the range 0 to 1.

Be sure to run the cells at the top of the notebook to load the `grader.score` function.

2 Questions

2.1 five_primes

In some questions, you will be asked to simply return a list of results. In this case, you are to return a list of the first five primes. Edit the cell below to create this list.

```
In [20]: primes = [2, 3, 5, 7, 11]
```

Now, all we have to do is submit that list to the grader:

```
In [21]: grader.score("assignment1__five_primes", primes)
```

```
==================
Your score:  1.0
==================
```

2.2 square

Other questions will require you to build a function that takes some input and returns a specified output. Build a function that takes a list of numbers as input and returns a list of their squares.

```
In [22]: def square(x):
             return [x*x for x in x]
```

In this case, the `grader.score` method will ask the grader for the input, pass it to your function, and report the output back for grading.

```
In [23]: grader.score("assignment1__square", square)
```

```
==================
Your score:  1.0
==================
```