

Map Tach Values

- ◆ The “Map” Concept:

```
def eng2(r):  
    return 0.7724*r**1.0134
```

- ◆ Apply a function to map ALL values in a given sequence
- ◆ Use **eng2()** to map all values in range(1000, 3200, 200)

```
>>> list(map(eng2, range(1100, 3500, 200)))  
[933.2319788474695, 1105.3821783375965,  
1277.8890449104067, 1450.7053144667843,  
1623.7948673573321, 1797.1291903589386,  
1970.6851959771182, 2144.4438041503813,  
2318.3889795000246, 2492.5070545946824, 2666.786240237934,  
2841.216262277051]
```


Round to 100

```
def next100(n):  
    return int(round(n, -2))
```

◆ How's this look?

```
>>> tach = range(1100, 3500, 200)
```

```
>>> list(map(next100, map(eng2, tach)))
```

```
[900, 1100, 1300, 1500, 1600, 1800, 2000, 2100,  
2300, 2500, 2700, 2800]
```