## 17-Figures

September 28, 2016

## 1 Appendix: Figure Code

This section contains code used to generate figures that appear in this report.

## 1.1 Section 6: List Indexing

This figure helps visualize how Python's indexing works.

```
In [3]: L = [2, 3, 5, 7, 11]
fig = plt.figure(figsize=(10, 4))
ax = fig.add_axes([0, 0, 1, 1], xticks=[], yticks=[], frameon=False,
                  aspect='equal')
for i in range (5):
    ax.add_patch(plt.Rectangle([i - 0.5, -0.5], 1, 1, fc='none', ec='black')
    ax.text(i, -0.05, L[i], size=100,
            ha='center', va='center', family='monospace')
for i in range(6):
    ax.text(i - 0.5, 0.55, str(i), size=20,
            ha='center', va='bottom', family='monospace')
for i in range (5):
    ax.text(i - 0.5, -0.58, str(-5 + i), size=20,
            ha='center', va='top', family='monospace')
ax.axis([-0.7, 4.7, -0.7, 0.7]);
fig.savefig('fig/list-indexing.png');
```

