

# Think Complexity: Small World Graphs

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# Small world graphs

1. Simple graphs
2. Complete graphs
3. Random graphs
4. Regular graphs
5. Small world graphs

## Simple graphs

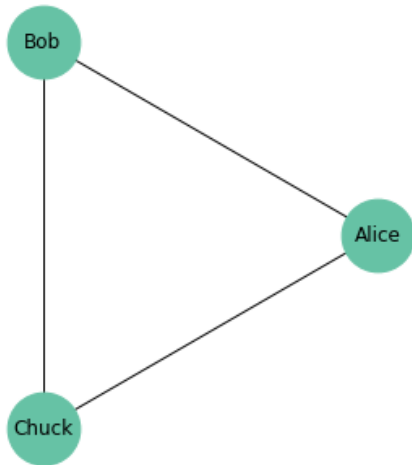


Figure 1:

# Complete graphs

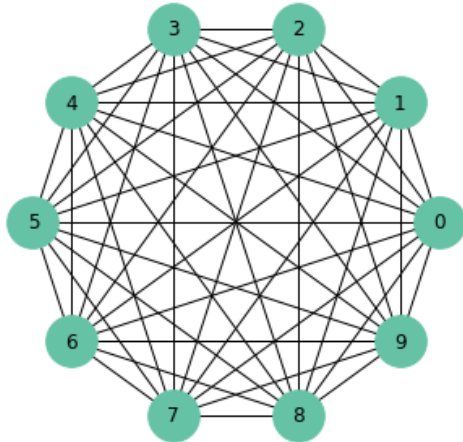


Figure 2:

## Random graphs

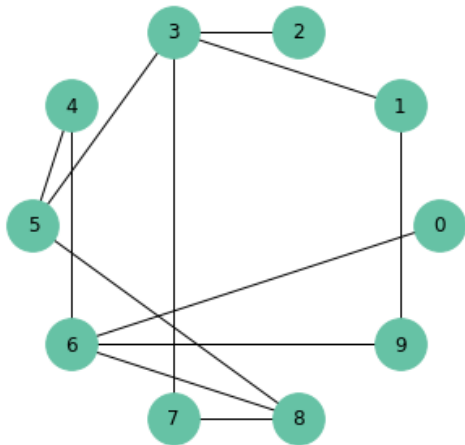


Figure 3:

## Small world graphs

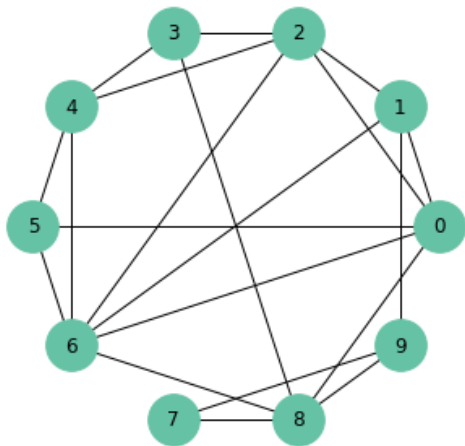


Figure 4:

## Examples of small world graphs

```
/usr/local/anaconda3/envs/complexity/lib/python3.6/site-pac
```

```
Future behavior will be consistent with the long-time c  
plot commands add elements without first clearing the  
Axes and/or Figure.
```

```
b = plt.ishold()
```

```
/usr/local/anaconda3/envs/complexity/lib/python3.6/site-pac
```

```
Future behavior will be consistent with the long-time c  
plot commands add elements without first clearing the  
Axes and/or Figure.
```

```
plt.hold(b)
```

```
/usr/local/anaconda3/envs/complexity/lib/python3.6/site-pac
```

```
warnings.warn(self.msg_depr_set % key)
```

```
/usr/local/anaconda3/envs/complexity/lib/python3.6/site-pac
```

```
warnings.warn("axes.hold is deprecated, will be removed i
```

```
/usr/local/anaconda3/envs/complexity/lib/python3.6/site-pac
```

## Small world graph behavior

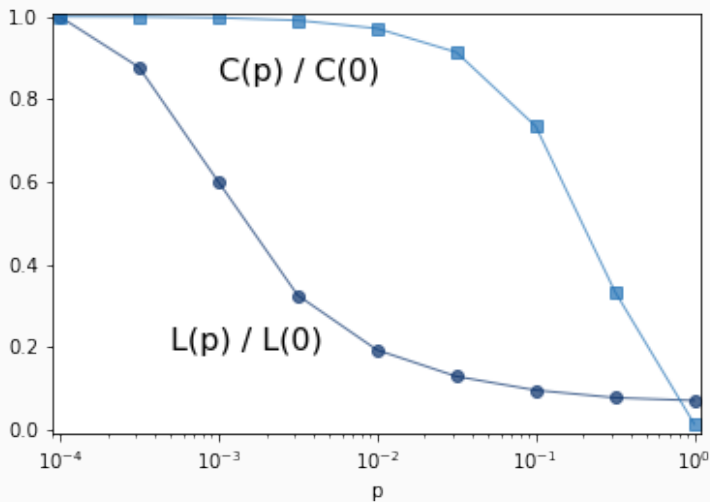


Figure 6: