iGraph

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CUNY IS620 Web Analytics
Assignment Week 2

In [11]:
```
import igraph
from IPython import display

%matplotlib inline
```

I've done this in IGraph for no particular reason. I don't really have a lot of experience with any of the graph tools.

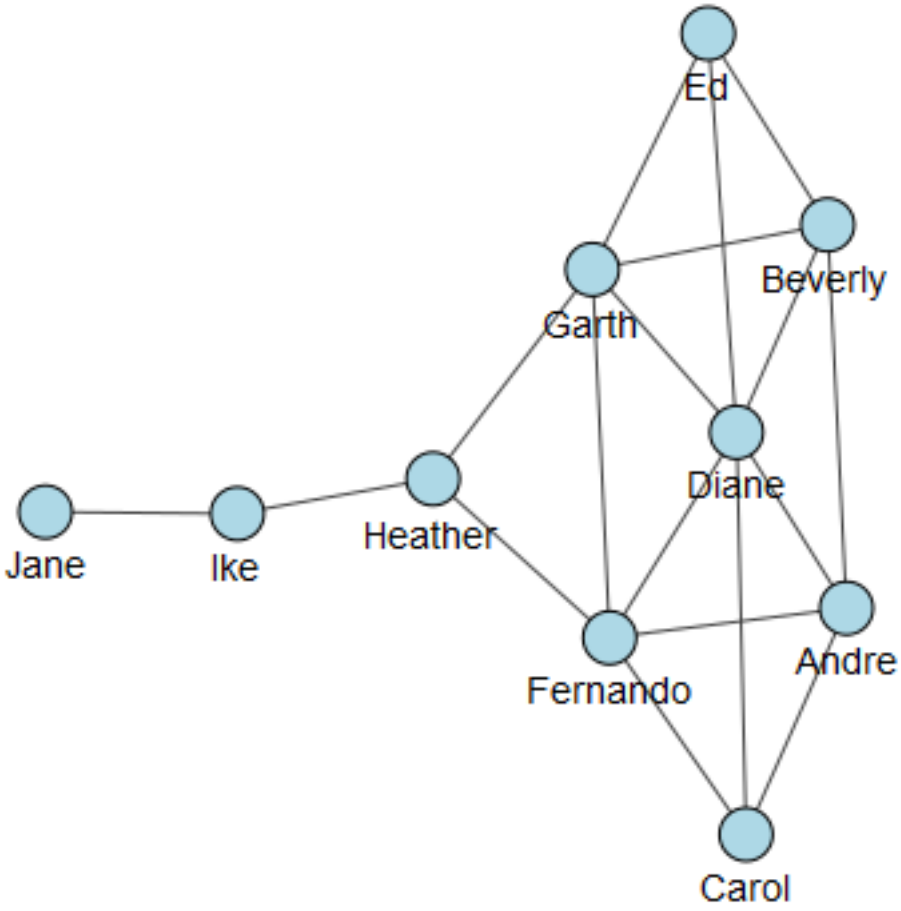
In [15]:
```
%qtconsole
```

In [22]:
```
g = igraph.Graph()
g.add_vertices(10)
g.vs['name'] = ['Andre', 'Beverly', 'Carol', 'Diane',
                'Ed', 'Fernando', 'Garth', 'Heather', 'Ike', 'Jane']
g.add_edges([(0, 1), (0, 2), (0, 3), (0, 5)])
g.add_edges([(1, 3), (1, 4), (1, 6)])
g.add_edges([(2, 3), (2, 5)])
g.add_edges([(3, 4), (3, 5), (3, 6)])
g.add_edges([(4, 6)])
g.add_edges([(5, 6), (5, 7)])
g.add_edges([(6, 7)])
g.add_edges([(7, 8)])
g.add_edges([(8, 9)])
```

In [50]:
```
g.vs['label'] = g.vs['name']
layout = g.layout_kamada_kawai()
visual_style = {}
visual_style['vertex_size'] = 20
visual_style['vertex_color'] = 'lightblue'
visual_style['bbox'] = (400, 400)
visual_style['vertex_label_dist'] = 1.5
visual_style['layout'] = layout
visual_style['margin'] = 50

igraph.plot(g, 'graph.png', **visual_style)
display.Image('graph.png')
```

Out[50]:


Ed
Beverly
Garth
Diane
Heather
Jane
Ike
Andre
Fernando
Carol