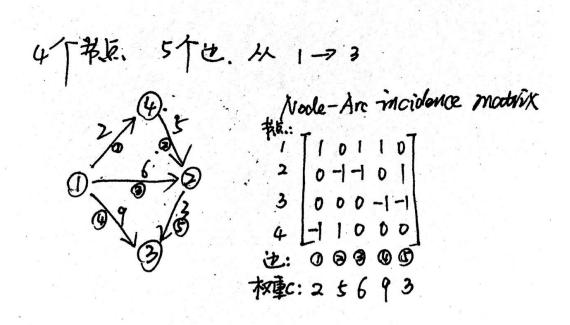
Dijkstra 算法:



步骤:

#encoding:utf-8

创建图

DG[1][4]['weight'] = 2 DG[1][3]['weight'] = 9 DG[2][3]['weight'] = 3 DG[4][2]['weight'] = 5

```
#Add capability to edges
 DG[1][2]['capability'] = 1
 DG[1][4]['capability'] = 1
 DG[1][3]['capability'] = 1
 DG[2][3]['capability'] = 1
 DG[4][2]['capability'] = 1
 #dijkstra calc
 tmp = PathCalc(G = DG,
                 start_point = 1,
                 end_point = 3)
计算:
    #dijkstra calc
    tmp = PathCalc(G = DG,
                   start_point = 1,
                   end point = 3)
    start = int(time.time()*1000)
    for i in range(1000):
        tmp.dijkstra_calc(field='weight', capability_min=0)
    stop = int(time.time() *1000)
    print 'dial 1000 times cost %d ms' % (stop - start)
    print 'the route is ',tmp.get_path()
    print 'the min of weight', tmp.get_weight()
    nx.drawing.draw_networkx(DG)
    ply.show()
    print tmp.get_distance()
运行结果:
 dial 1000 times cost 57 ms
 the route is [1, 2, 3]
 the min of weight 9
```

电脑作图:有向边的箭头用途中黑色

加粗部分代替

