```
ComplexNetwork< NODE
    TYPE, EDGE TYPE >
   + description
   + num_nodes
   + num edges
   # current node id
   # current_edge_id
   # directed
   # nodes
   # edges
   # edge
   # file header
   + ComplexNetwork()
   + addNode()
   + getNode()
   + removeNode()
   + addEdge()
   + getEdge()
   + getEdgeFromEdgeId()
   + removeEdge()
   + clear()
   + getNumNodes()
   and 11 more...
   # createEdgeKev()
CachedComplexNetwork
< NODE_TYPE, EDGE_TYPE >

    cache

+ CachedComplexNetwork()
+ addNode()
+ removeNode()
+ getNodeld()
               <int, double >
 CachedComplexNetwork
        <int, double >

    cache

 + CachedComplexNetwork()
 + addNode()
 + removeNode()
 + getNodeld()
```