



# Code Finalization Support Weighted Edge

⇒ Nullable [var]

⇒ Design decisions

⇒ Impact analysis

⇒ Optional parameters (idiom)

⇒ Preview code changes

## Design Decisions

mark unweighted edge by "null"  
edge default to unweighted (null by default)  
unless an optional weight is passed at input

Consequences input format must support optional weight field  
graph needs weighted property  
optional weight should be detected (lang. dependent)

## Impact analysis (audit internal check point)

- 1 Edge() add weight property field (default null)
- 2 Graph() add weighted prop. (default)??
- 3 add\_edge2 support a 3rd optional edge weight parameter
- 4 .print\_graph() report weighted status
- 5 .better\_input() detect the optional weight field in i/p edge list  
set graph weighted prop

6 input format

✓ {u:0, v:2}  
~~~~~  
unweighted

or {u:0, v:2, w:100}  
~~~~~  
Weighted graph

optional

Q: should I check for errors? NO