

pair-wise distance or shortest-path length between nodes

```
[0, 1, 1, 2, 3, 4, 2, 3, 4, 4]
[1, 0, 1, 1, 2, 3, 1, 2, 3, 3]
[1, 1, 0, 1, 3, 4, 2, 3, 4, 4]
[2, 1, 1, 0, 3, 4, 2, 3, 4, 4]
[3, 2, 3, 3, 0, 2, 1, 1, 1, 1]
[4, 3, 4, 4, 2, 0, 2, 1, 1, 1]
[2, 1, 2, 2, 1, 2, 0, 1, 2, 2]
[3, 2, 3, 3, 1, 1, 1, 0, 1, 1]
[4, 3, 4, 4, 1, 1, 2, 1, 0, 2]
[4, 3, 4, 4, 1, 1, 2, 1, 2, 0]
```

association

```
1.0 1.0 1.0 0.25 0.1111 0.0625 0.25 0.1111 0.0625 0.0625
1.0 1.0 1.0 1.0 0.25 0.1111 1.0 0.25 0.1111 0.1111
1.0 1.0 1.0 1.0 0.1111 0.0625 0.25 0.1111 0.0625 0.0625
0.25 1.0 1.0 1.0 0.1111 0.0625 0.25 0.1111 0.0625 0.0625
0.1111 0.25 0.1111 0.1111 1.0 0.25 1.0 1.0 1.0 1.0
0.0625 0.1111 0.0625 0.0625 0.25 1.0 0.25 1.0 1.0 1.0
0.25 1.0 0.25 0.25 1.0 0.25 1.0 1.0 0.25 0.25
0.1111 0.25 0.1111 0.1111 1.0 1.0 1.0 1.0 1.0 1.0
0.0625 0.1111 0.0625 0.0625 1.0 1.0 0.25 1.0 1.0 0.25
0.0625 0.1111 0.0625 0.0625 1.0 1.0 0.25 1.0 0.25 1.0
```

dissimilarity or distance metric

```
0.0 0.2355 0.1392 0.3445 1.689 1.7116 1.0463 1.8329 1.6906 1.6906
0.2355 0.0 0.1267 0.2355 1.6079 1.8904 0.9189 1.8078 1.8326 1.8326
0.1392 0.1267 0.0 0.1392 1.8265 1.8208 1.1821 1.9891 1.8015 1.8015
0.3445 0.2355 0.1392 0.0 1.689 1.7116 1.0463 1.8329 1.6906 1.6906
1.689 1.6079 1.8265 1.689 0.0 0.4455 0.5539 0.1436 0.4455 0.4455
1.7116 1.8904 1.8208 1.7116 0.4455 0.0 1.1465 0.2304 0.3046 0.3046
1.0463 0.9189 1.1821 1.0463 0.5539 1.1465 0.0 0.7004 0.7902 0.7902
1.8329 1.8078 1.9891 1.8329 0.1436 0.2304 0.7004 0.0 0.2304 0.2304
1.6906 1.8326 1.8015 1.6906 0.4455 0.3046 0.7902 0.2304 0.0 0.3046
1.6906 1.8326 1.8015 1.6906 0.4455 0.3046 0.7902 0.2304 0.3046 0.0
```