

# Graphe TP1 exemple 1

<http://graphonline.ru/en/?graph=uGbEADKqgwzEBoMP>

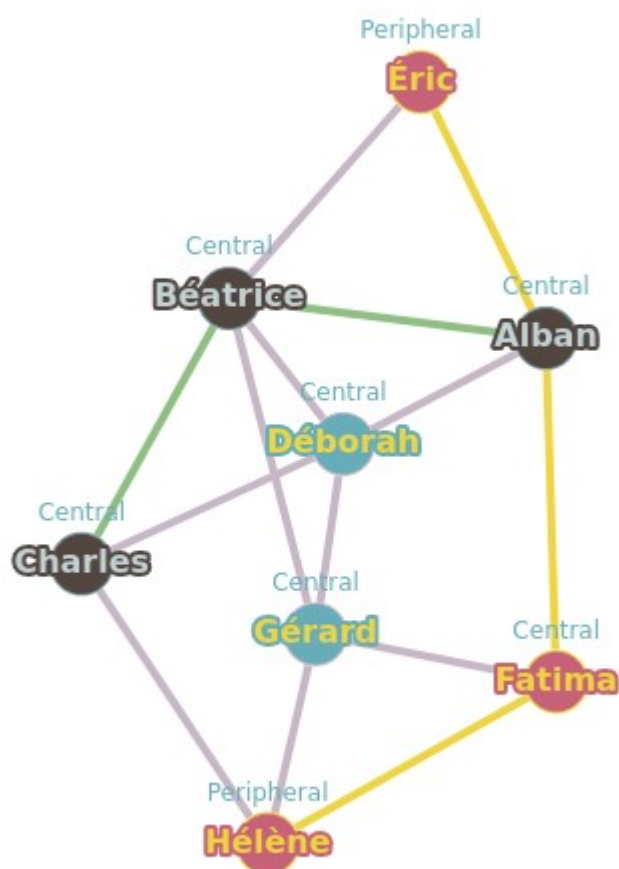
graph\_TP1\_1.graphml

Matrice d'adjacence.

```
0, 1, 0, 1, 1, 1, 0, 0,
1, 0, 1, 1, 1, 0, 1, 0,
0, 1, 0, 1, 0, 0, 0, 1,
1, 1, 1, 0, 0, 0, 1, 0,
1, 1, 0, 0, 0, 0, 0, 0,
1, 0, 0, 0, 0, 0, 1, 1,
0, 1, 0, 1, 0, 1, 0, 1,
0, 0, 1, 0, 0, 1, 1, 0,
```

La matrice des distances minimales

```
0, 1, 2, 1, 1, 1, 2, 2
1, 0, 1, 1, 1, 2, 1, 2
2, 1, 0, 1, 2, 2, 2, 1
1, 1, 1, 0, 2, 2, 1, 2
1, 1, 2, 2, 0, 2, 2, 3
1, 2, 2, 2, 2, 0, 1, 1
2, 1, 2, 1, 2, 1, 0, 1
2, 2, 1, 2, 3, 1, 1, 0
```



Graph radius: 2 (Alban⇒Béatrice⇒Charles). Graph diameter: 3 (Éric⇒Alban⇒Fatima⇒Hélène).

	Alban	Béatrice	Charles	Déborah	Éric	Fatima	Gérard	Hélène	somme	dist_max	centre	rayon	diametre
Alban	0.0	1.0	2.0	1.0	1.0	1.0	2.0	2.0	10.0	2.0			
Béatrice	1.0	0.0	1.0	1.0	1.0	2.0	1.0	2.0	9.0	2.0	Béatrice	2.0	
Charles	2.0	1.0	0.0	1.0	2.0	2.0	2.0	1.0	11.0	2.0			
Déborah	1.0	1.0	1.0	0.0	2.0	2.0	1.0	2.0	10.0	2.0			
Éric	1.0	1.0	2.0	2.0	0.0	2.0	2.0	3.0	13.0	3.0			3.0
Fatima	1.0	2.0	2.0	2.0	2.0	0.0	1.0	1.0	11.0	2.0			
Gérard	2.0	1.0	2.0	1.0	2.0	1.0	0.0	1.0	10.0	2.0			
Hélène	2.0	2.0	1.0	2.0	3.0	1.0	1.0	0.0	12.0	3.0			

