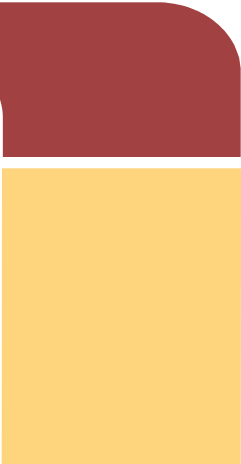




Visualizing Wikipedia Communities using Gephi

A closer look at our communities

Haitham Shammaa
April, 16, 2014



Wiki communities

What we do know...

- Number of edits by users
- Total number of users/editors/active editors
- Number of users by countries/language
- ... etc (basically individual stats)

What we don't know ...

- Community leaders (user centrality)
- Interaction between users (Community health)

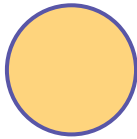
How do we do that?



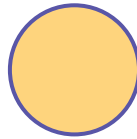
“Simplicity is the ultimate sophistication.”
– Leonardo da Vinci

A random Research Community

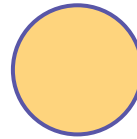
(that exists in one of the parallel universes)



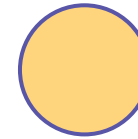
Dario



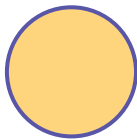
Aaron



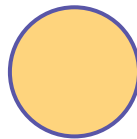
Leila



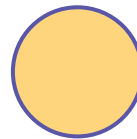
Oliver



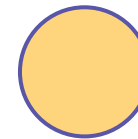
Jaime



Erik



Haitham

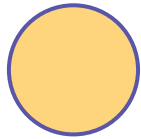


Jonathan

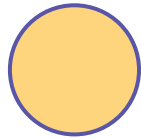


Bizzario

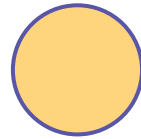
Example : emails, in and out!



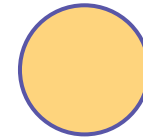
Dario
in : 100
out : 3



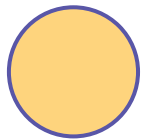
Aaron
in : 25
out : 28



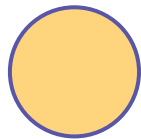
Leila
in : 15
out : 7



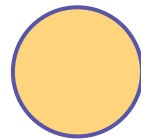
Oliver
in : 60
out : 130



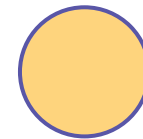
Jaime
in : 30
out : 25



Erik
in : 70
out : 45



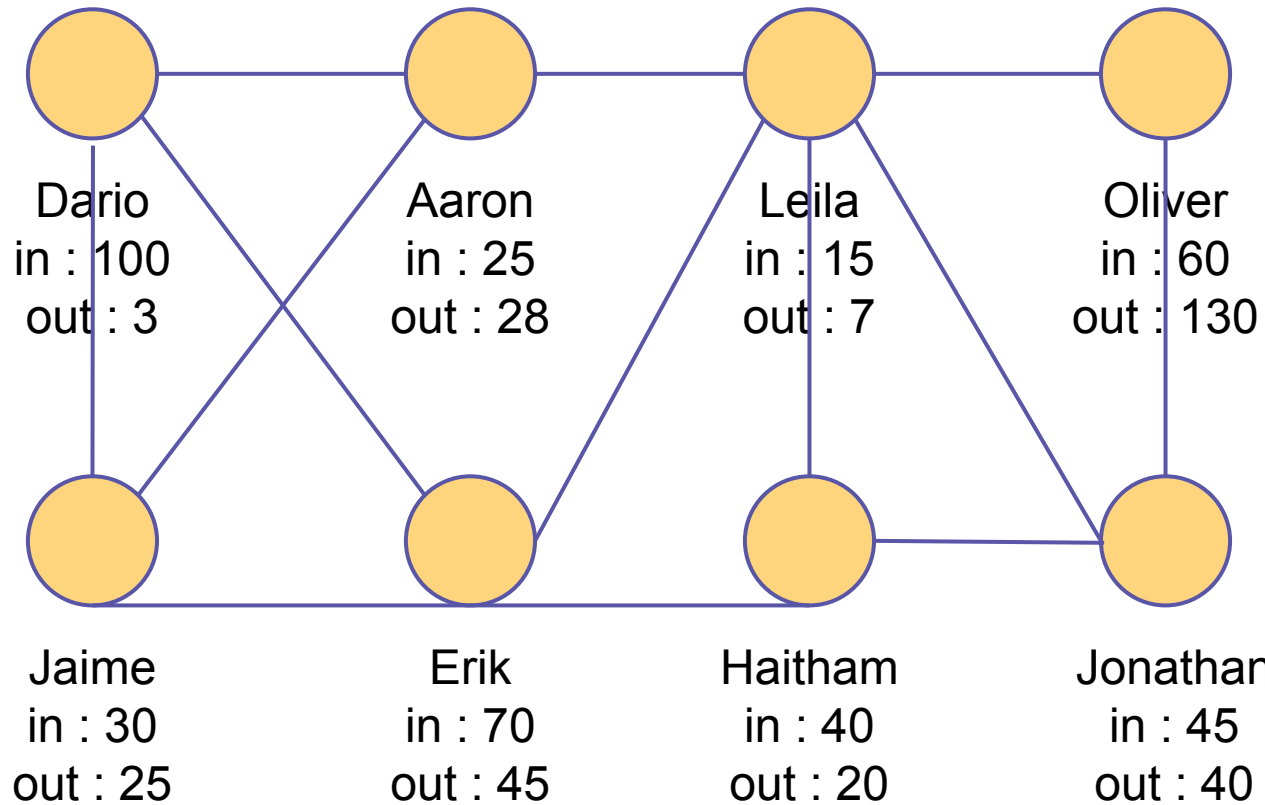
Haitham
in : 40
out : 20



Jonathan
in : 45
out : 40

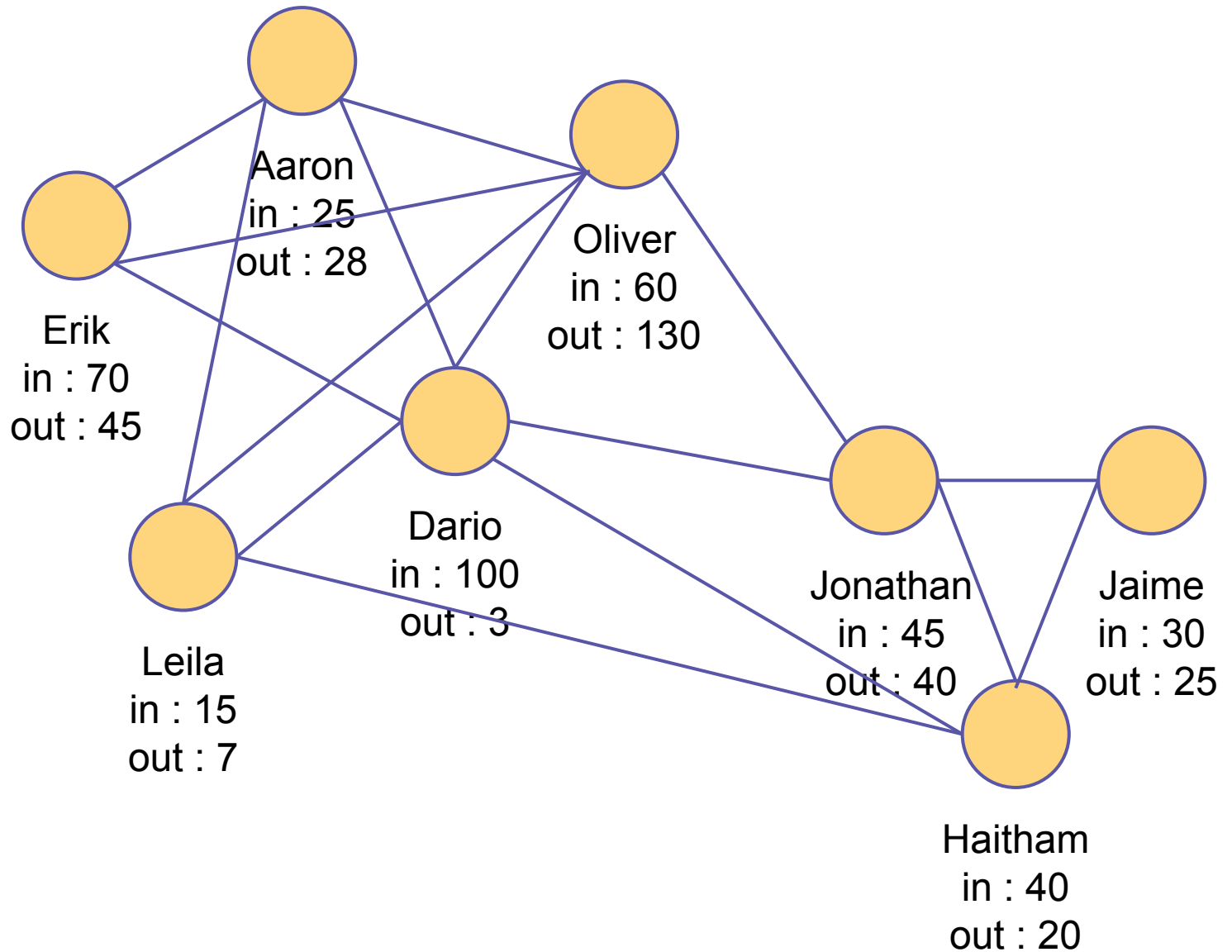
* most of our data mining work so far stopped at this dimension

Who emails whom?

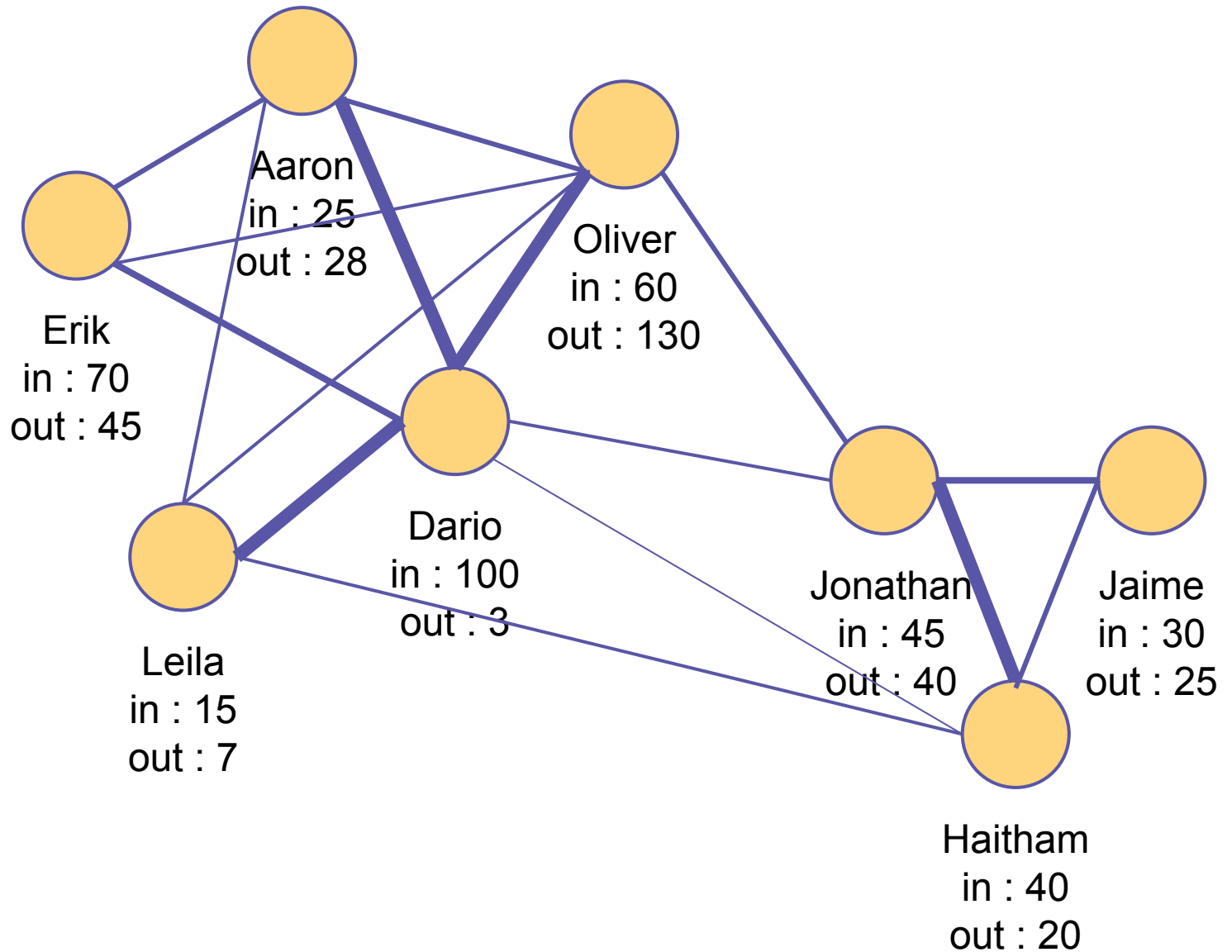


Cool, but not very informative!

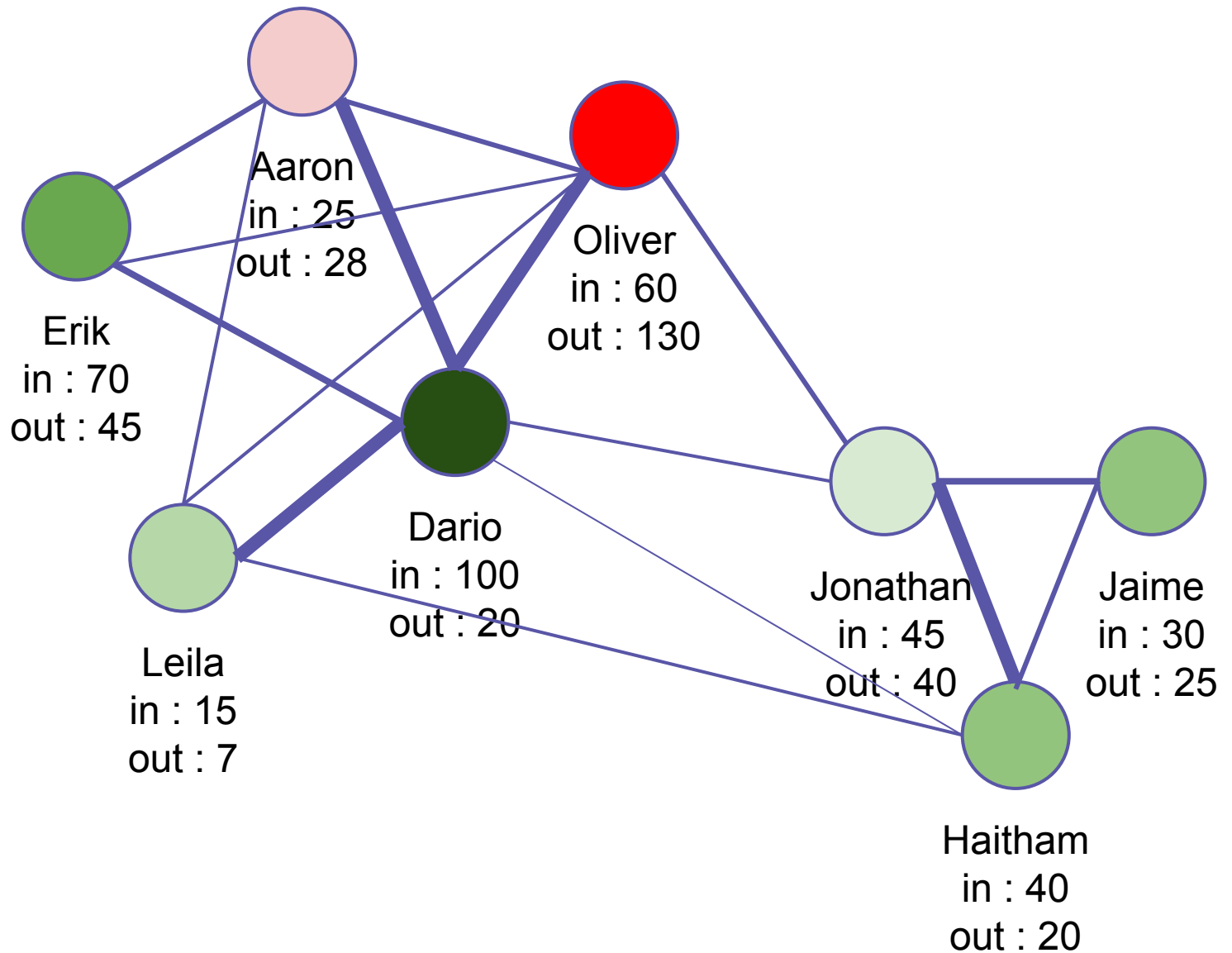
Layout using graph energy



How many emails exchanged between each two?



Coloring by # of in & out emails



How do we do this on Wikipedia?

