Network Elements

Part 01

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@ivanovitchm

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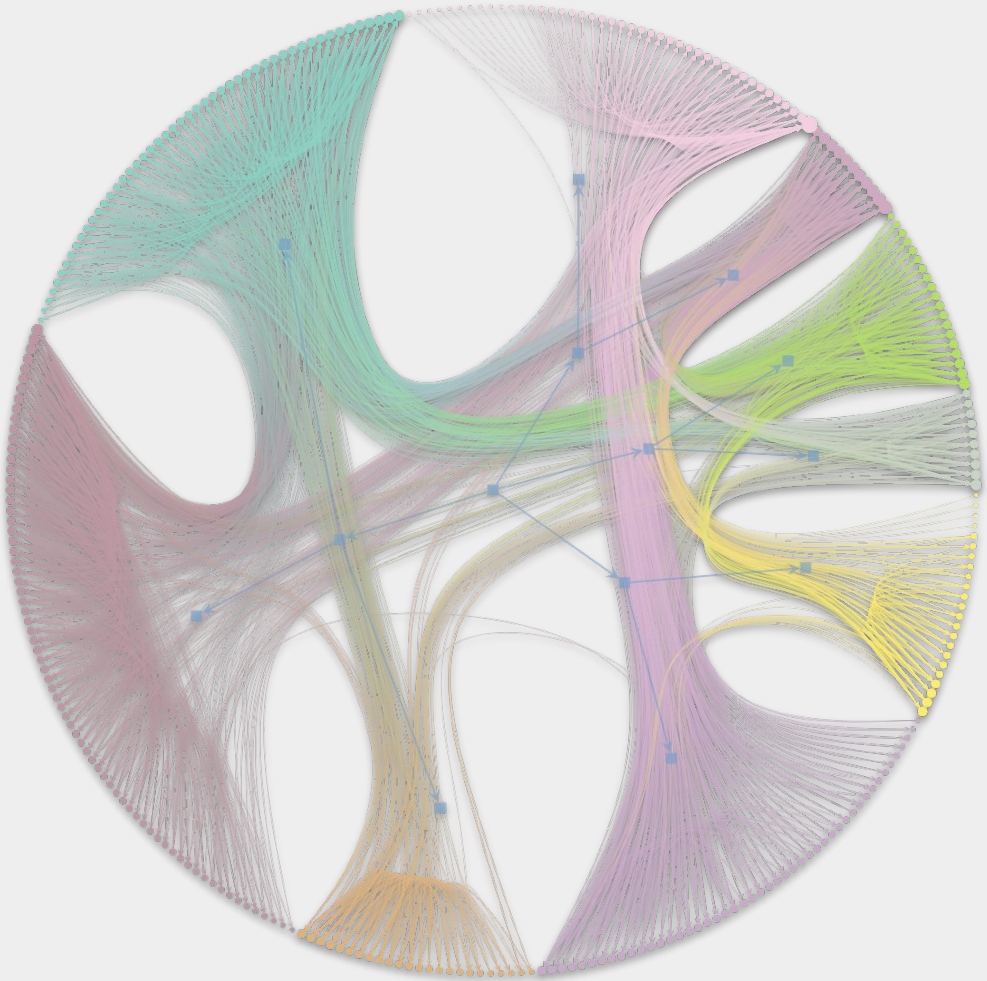
DCA



Conhecendo

- 📚 conhecendo
- 👂 ouvindo
- 📖 lendo
- 📝 escrevendo/anotando
- 👨‍🎓 estudando

<conteúdo e objetos de aprendizagem>

Descobrindo

- 🔍 pesquisando
- 👀 observando
- 🕵️ investigando
- 🧪 testando

<aprendizagem ativa e curadoria>

aqui a aprendizagem acontece

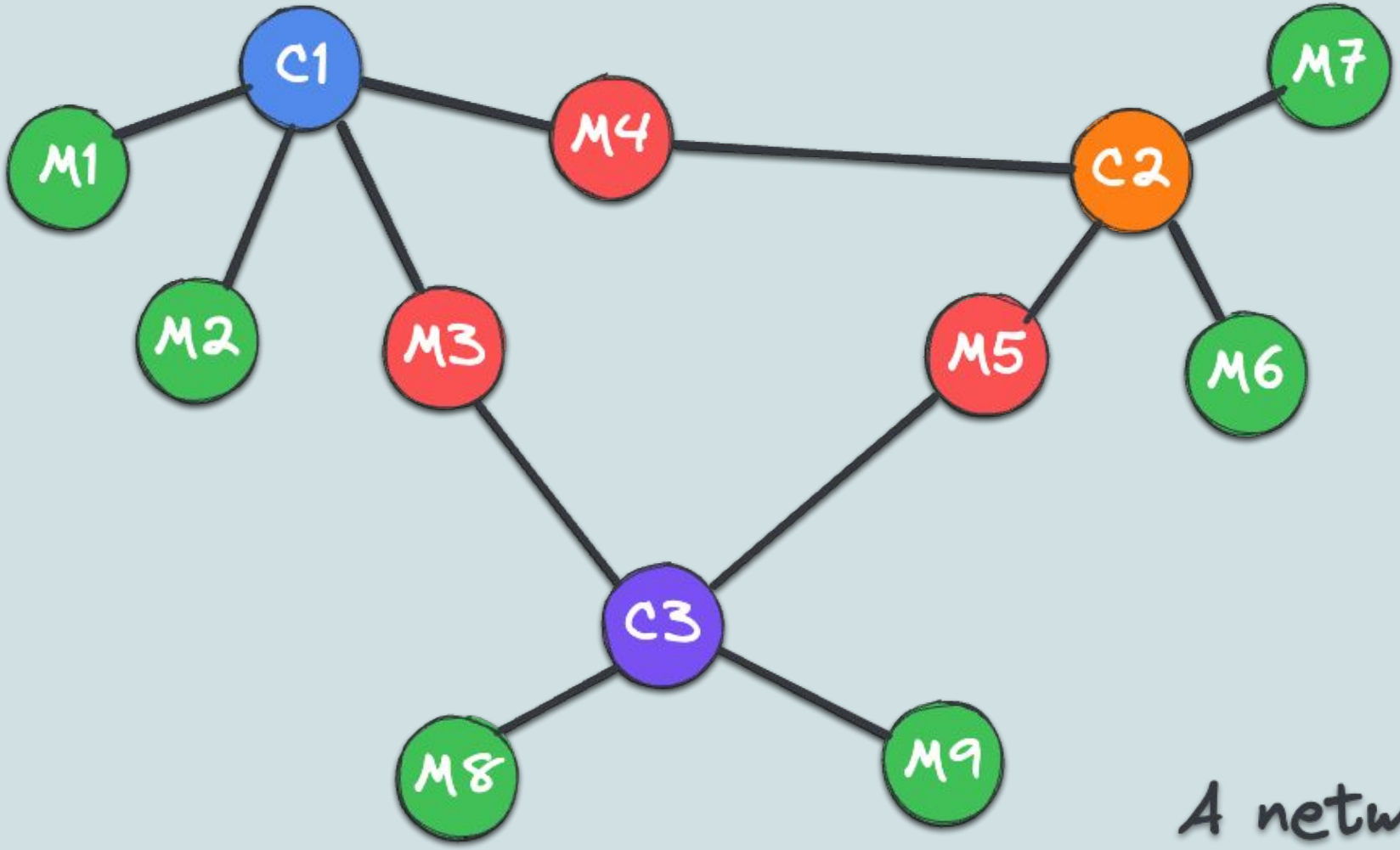
Partilhando

- 💬 dialogando
- 💭 debatendo
- 🗣️ discutindo
- 👥 explicando
- 🎓 ensinando
- 🤝 trocando

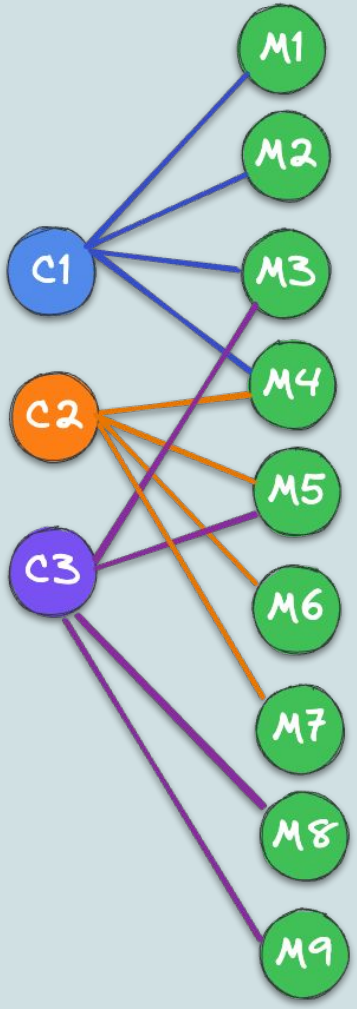
<espaços, plataformas, redes e comunidades>

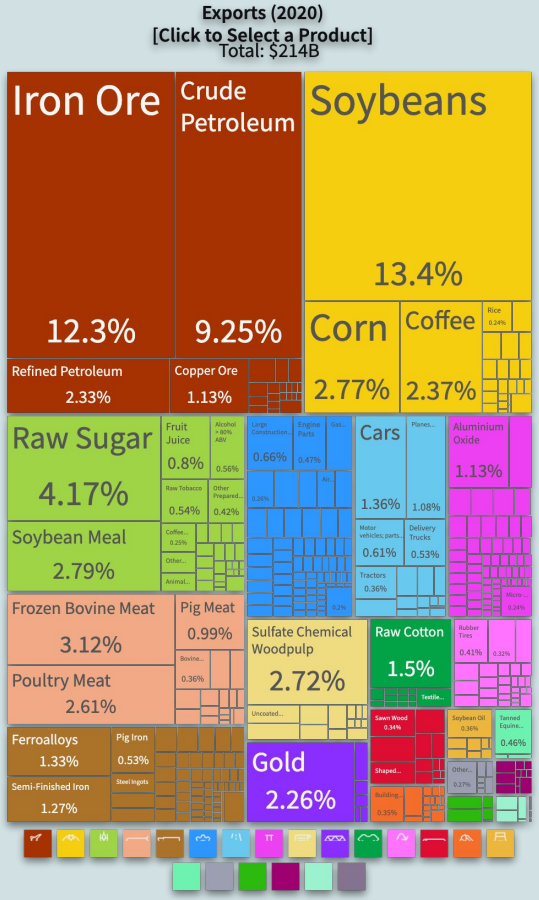
Experenciando

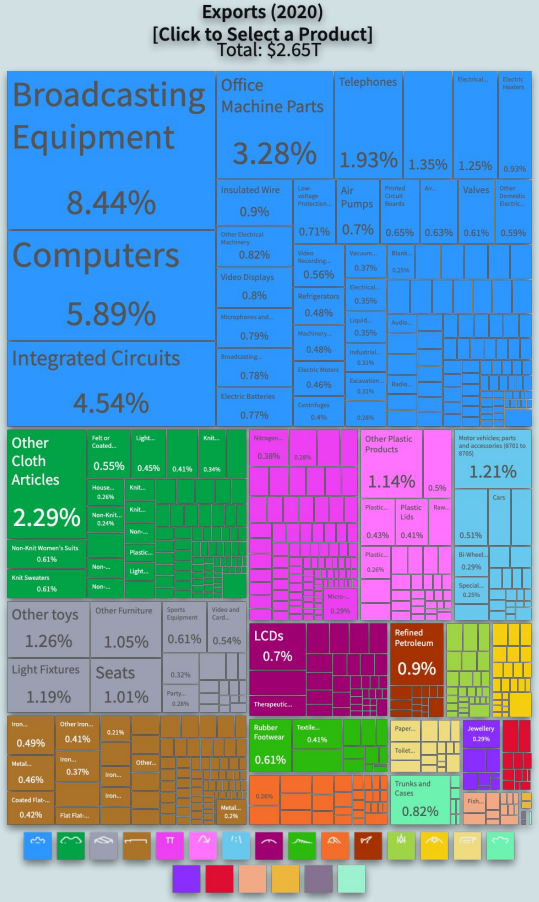
- 🏋️ praticando
- 🤔 dando sentido
- 🧘 vivenciando
- 🎨 criando
- 😍 sentindo
- 🧩 conectando os pontos



A network



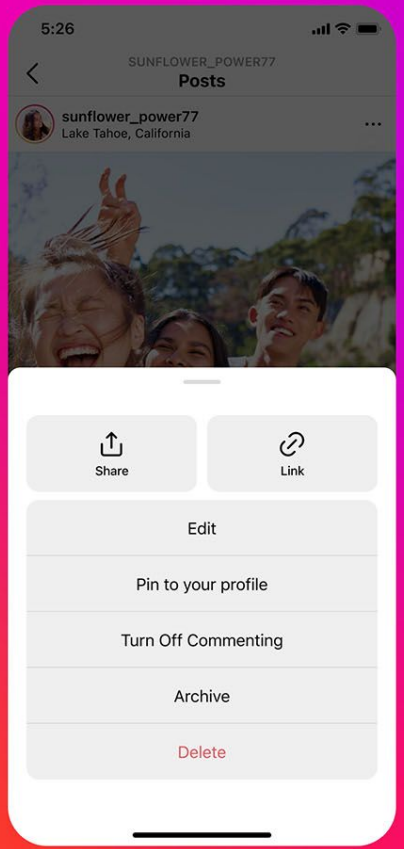


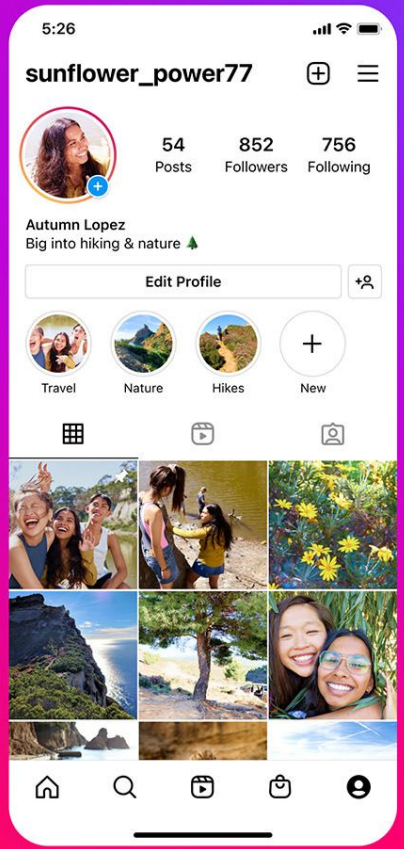


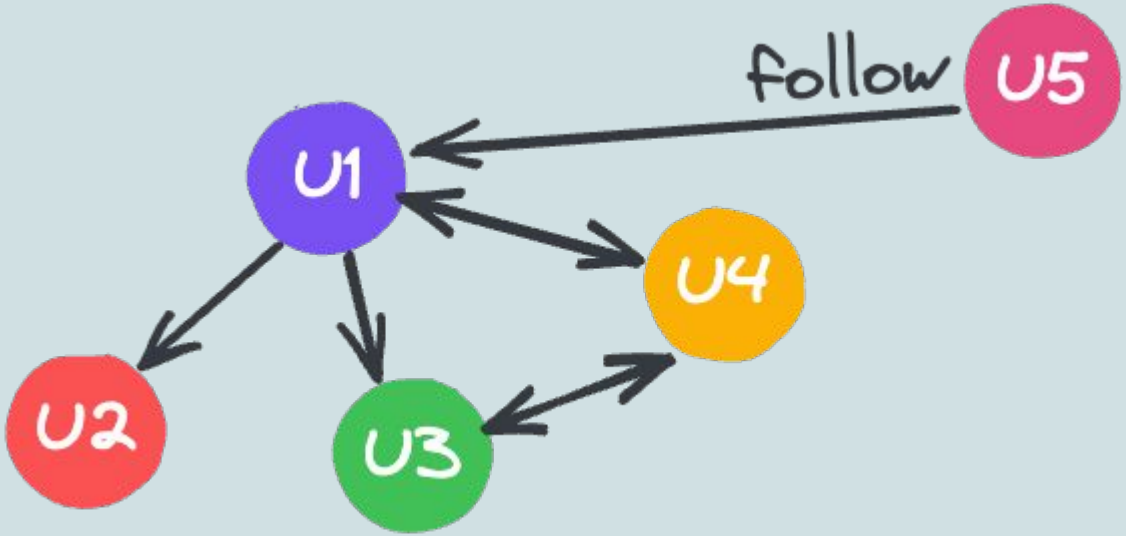
bipartite network

https://oec.world/en/profile/country/chn


5:26
SUNFLOWER_POWER77
Posts
sunflower_power77
Lake Tahoe, California
Now you can pin posts to your profile
Liked by liam_beanz99 and 12 others
sunflower_power77 Lake trip with the best ❤️
#laketahoe2022
View all 5 comments
Add a comment...
1 day ago


5:26
SUNFLOWER_POWER77
Posts
sunflower_power77
Lake Tahoe, California
Share
Link
Edit
Pin to your profile
Turn Off Commenting
Archive
Delete


5:26
sunflower_power77
54
Posts
852
Followers
756
Following
Autumn Lopez
Big into hiking & nature
Edit Profile
Travel
Nature
Hikes
New

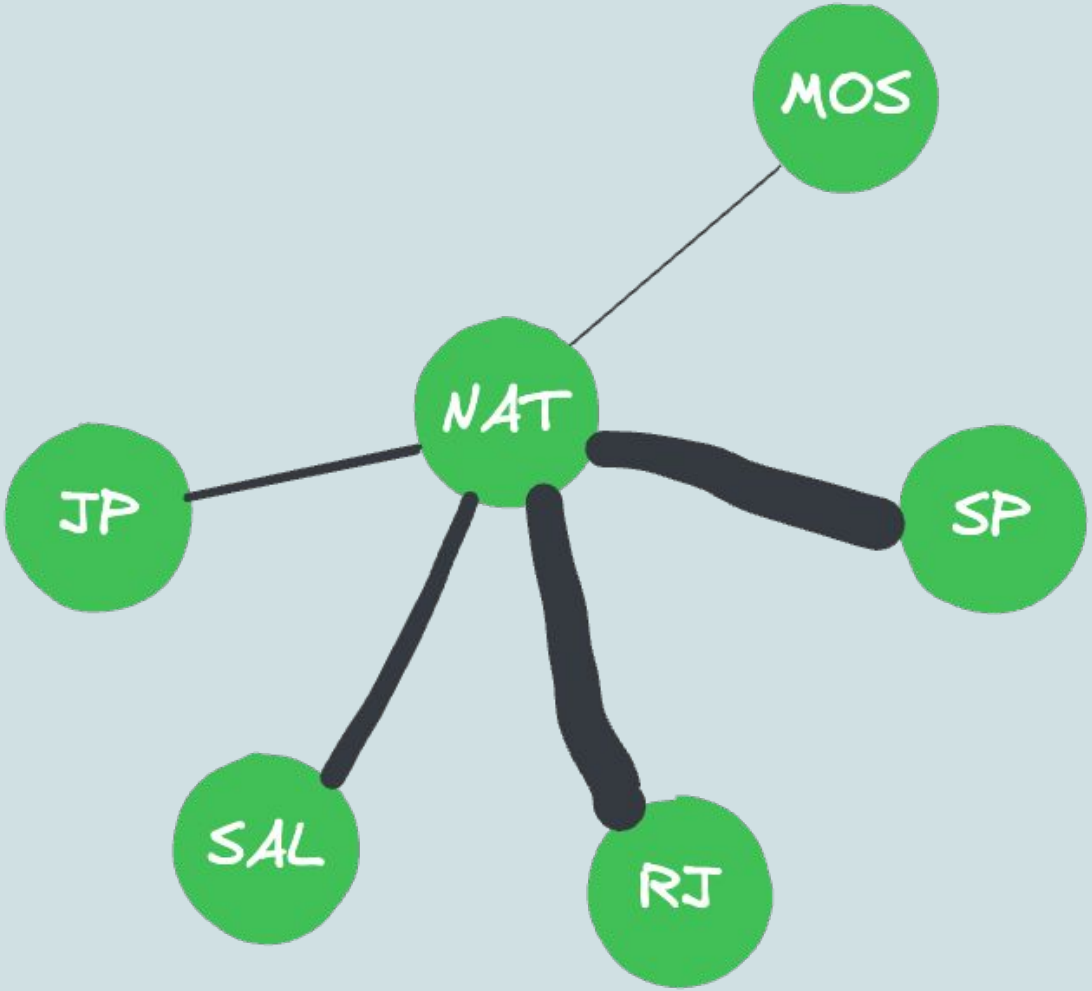


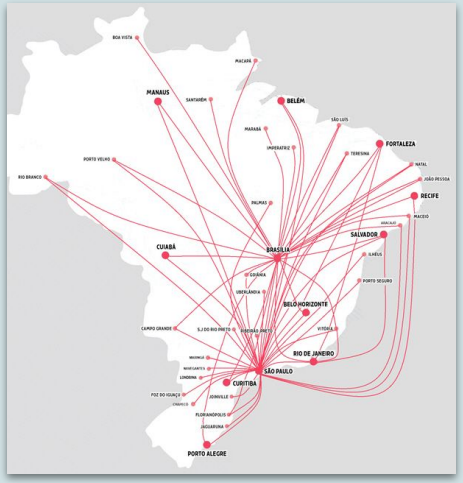
leomessi

Following Message

1,025 posts **457M** followers **292** following

Leo Messi
Bienvenidos a la cuenta oficial de Instagram de Leo Messi / Welcome to the official Leo Messi Instagram account
themessistore.com

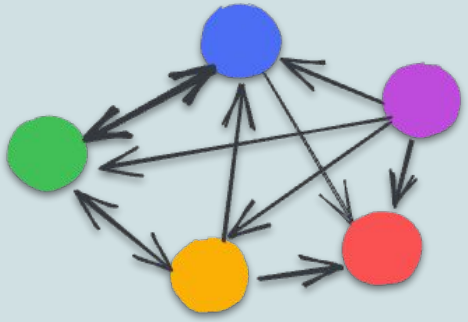

MOS
NAT
JP
SP
SAL
RJ


BOA VISTA
MACAPÁ
MANAUS
SANTARÉM
BELÉM
SÃO LUÍS
MARABÁ
FORTALEZA
IMPERATRIZ
TERESINA
PORTO VELHO
NATAL
RIO BRANCO
JOÃO PESSOA
RECIFE
PALMAS
MACEIÓ
ARACAJU
SALVADOR
CUIABÁ
BRASÍLIA
ILHÉUS
GOIÂNIA
PORTO SEGURO
UBERLÂNDIA
BELO HORIZONTE
CAMPO GRANDE
S.J DO RIO PRETO
UBERABA
VITÓRIA
RIO DE JANEIRO
MARINGÁ
LONDRINA
SÃO PAULO
CURITIBA
FOZ DO IGUAÇU
JOINVILLE
CHAPECÓ
FLORIANÓPOLIS
CRICIÚMA
PORTO ALEGRE

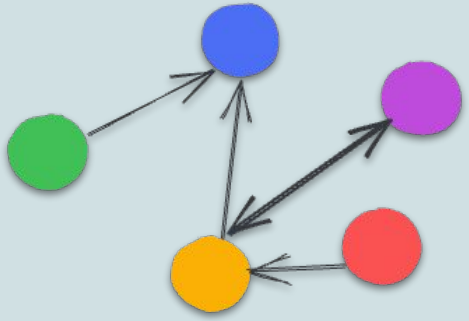
GitHub

https://github.com/kurasaiteja/Whatsapp-Analysis

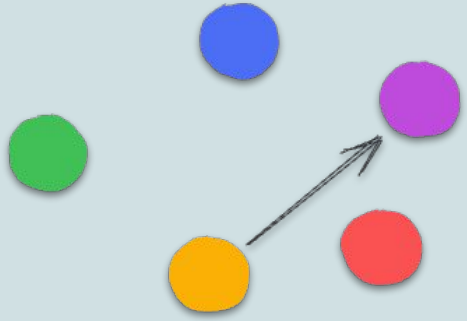
Monday



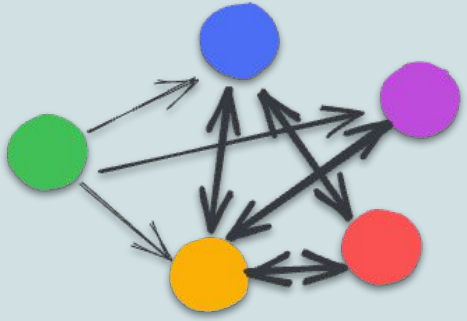
Tuesday



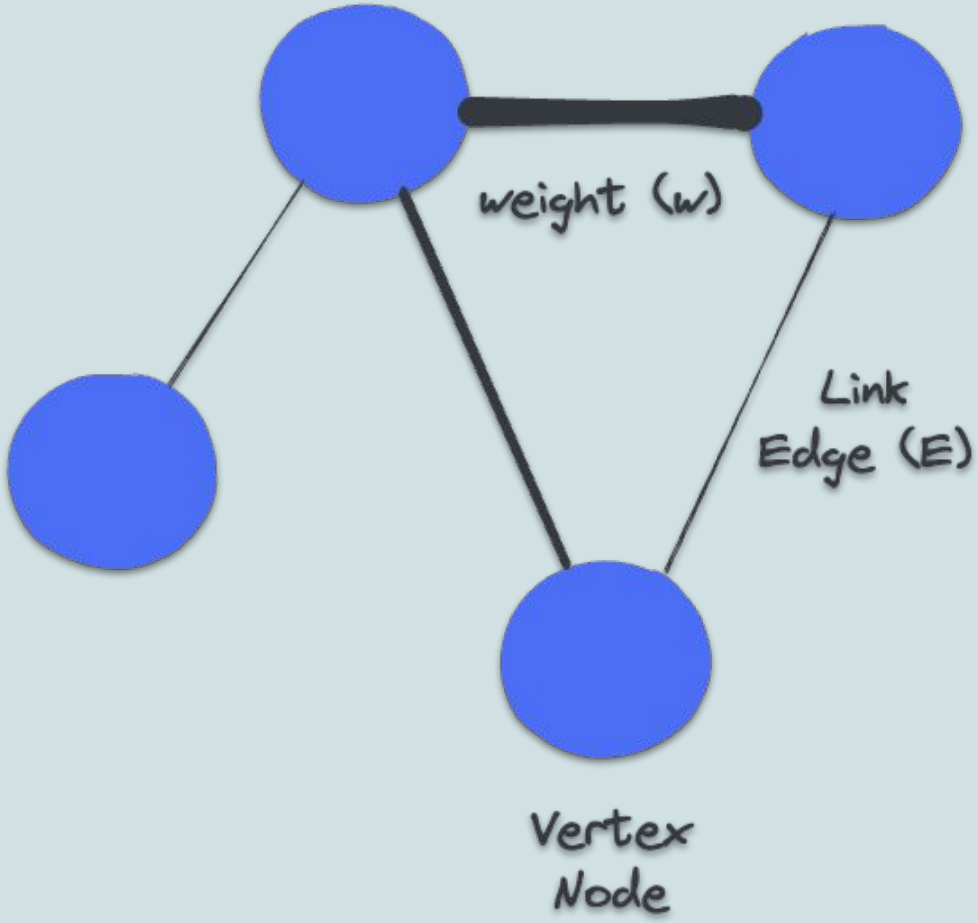
Wednesday



Thursday



Temporal network

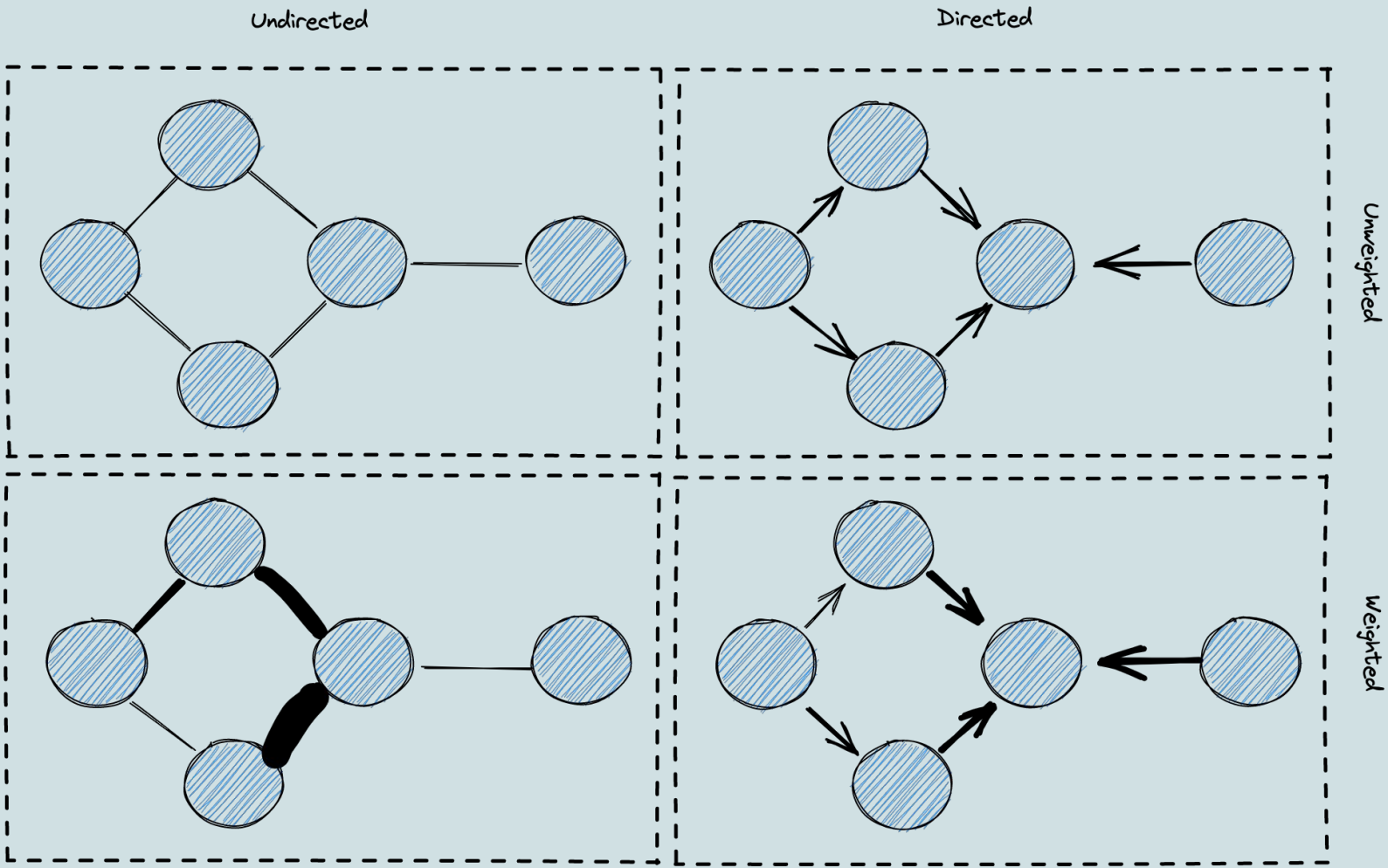


Basic Definitions

$$G = (V, E, W)$$

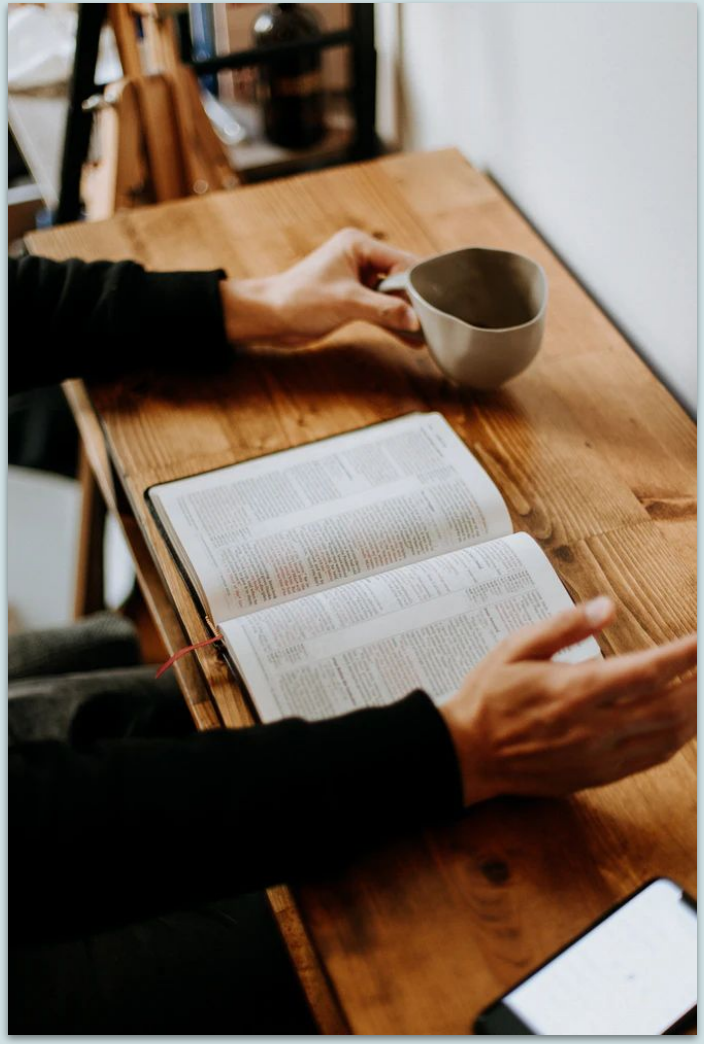
$$E \subseteq V \times V$$

$$W \subseteq R^{+}$$

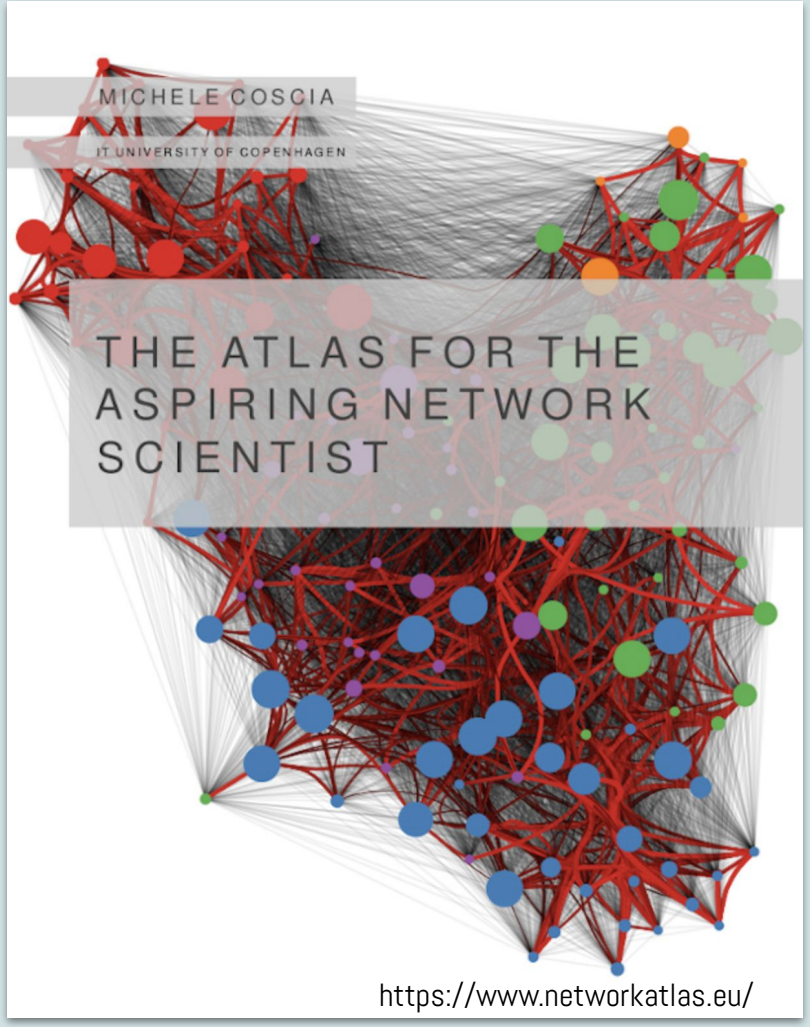

Undirected
Directed
Unweighted
Weighted

Other Fundamental Properties

Density and Sparsity
Subnetwork
Degree
Network Representation



Further Reading



https://www.networkatlas.eu/

Contact

Mailing list
Issue tracker
Source

Releases

Stable (notes)

3.1 — April 2023
Documentation

Latest (notes)

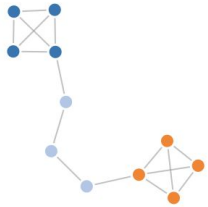
3.2 development
Documentation

Archive

NetworkX

Network Analysis in Python

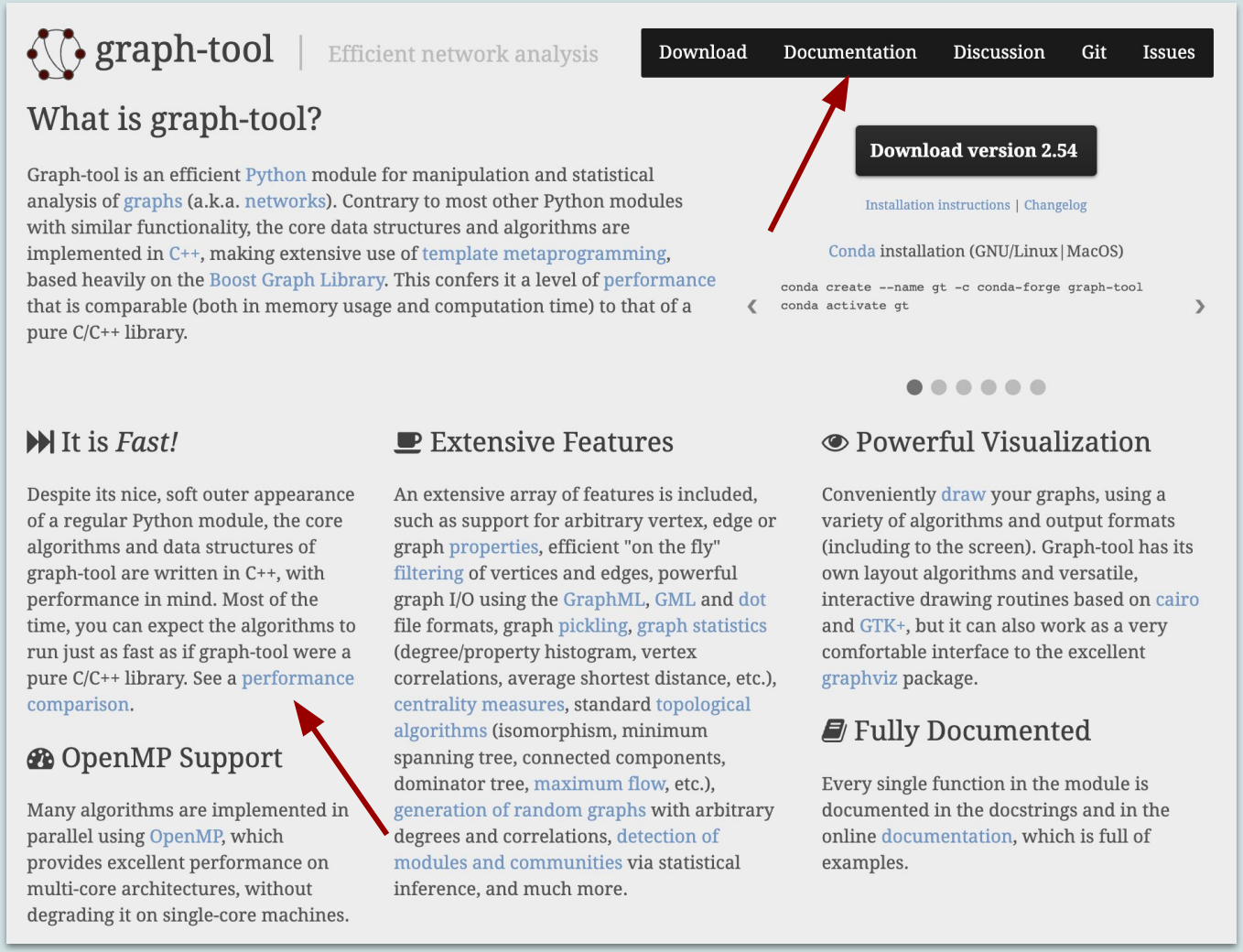
NetworkX is a Python package for the creation, manipulation, and study of the structure, dynamics, and functions of complex networks.



Software for complex networks

- Data structures for graphs, digraphs, and multigraphs
- Many standard graph algorithms
- Network structure and analysis measures
- Generators for classic graphs, random graphs, and synthetic networks
- Nodes can be "anything" (e.g., text, images, XML records)
- Edges can hold arbitrary data (e.g., weights, time-series)
- Open source 3-clause BSD license
- Well tested with over 90% code coverage
- Additional benefits from Python include fast prototyping, easy to teach, and multi-platform

https://networkx.org/



https://graph-tool.skewed.de/