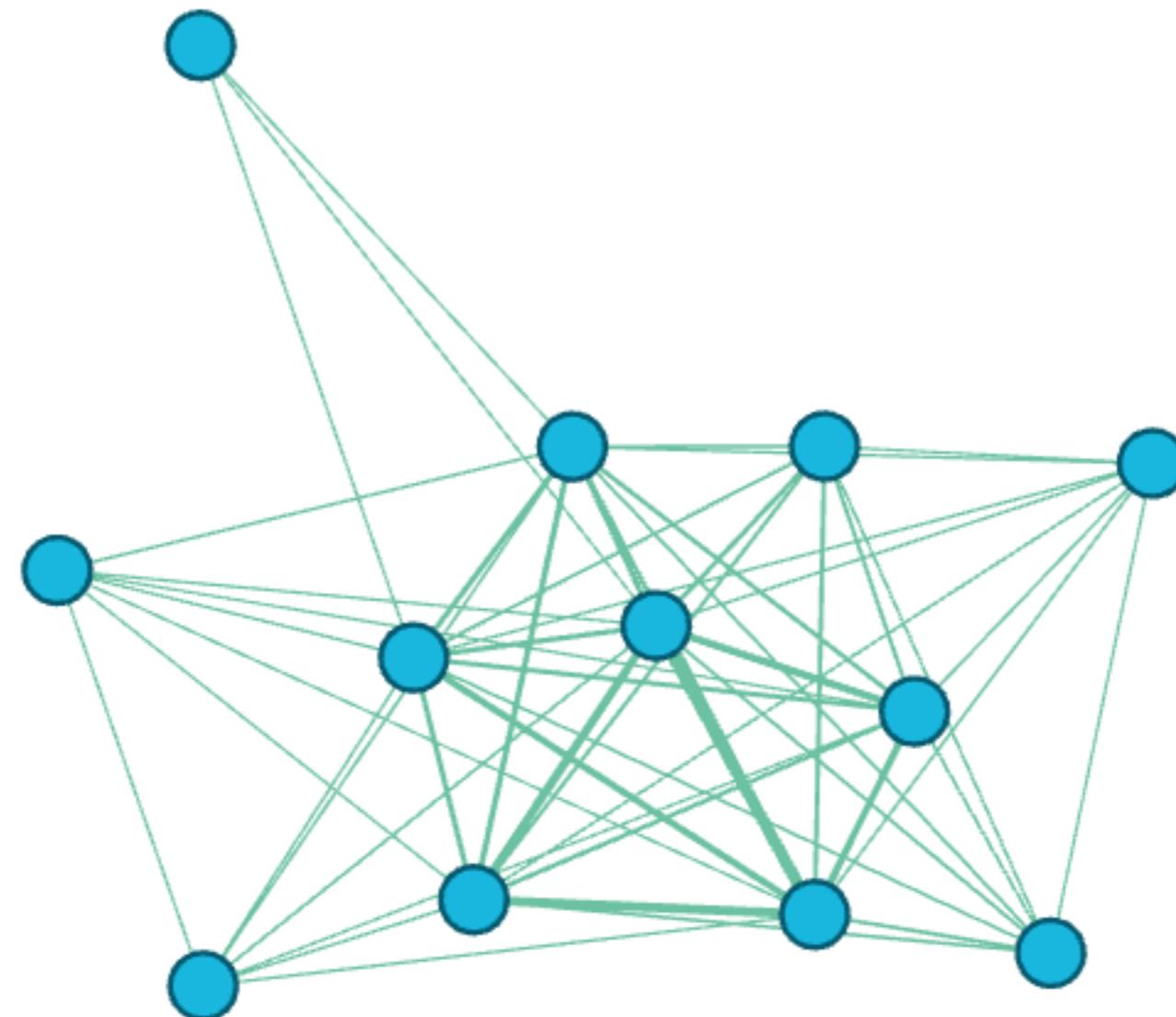


Community Detection on Meetup.Com

Filip Machi
galvanize@fil.fmachi.net
<https://github.com/nitecascade/solid-funicular>

A Social Network represents relationships or information flows between people, groups, organizations or other entities.

Often visualized as a Graph of Nodes and Edges.



Why Study Community In Social Networks?

- Social networks are not random, they have **structure**, like **community** (common interests among people)
- There are **surprises** waiting to be uncovered

Where Did The Data Come From?

- *meetup.com API*
- *Python & bash*
- *5+ GB of JSON*
- *8200+ Groups*
- *7.3+ million Edges*

Social Graph Construction

Group: Poor Spellers of the World Untie

Members:

Alice, Bob, Carla, Don, Ellen,
Frank, Gerry

Group: Lisdoxic Readers for the Blind

Members:

Alice, Bart, Carla, Don,
Frank, George, Hanna, Ira

Group: Former Librarians

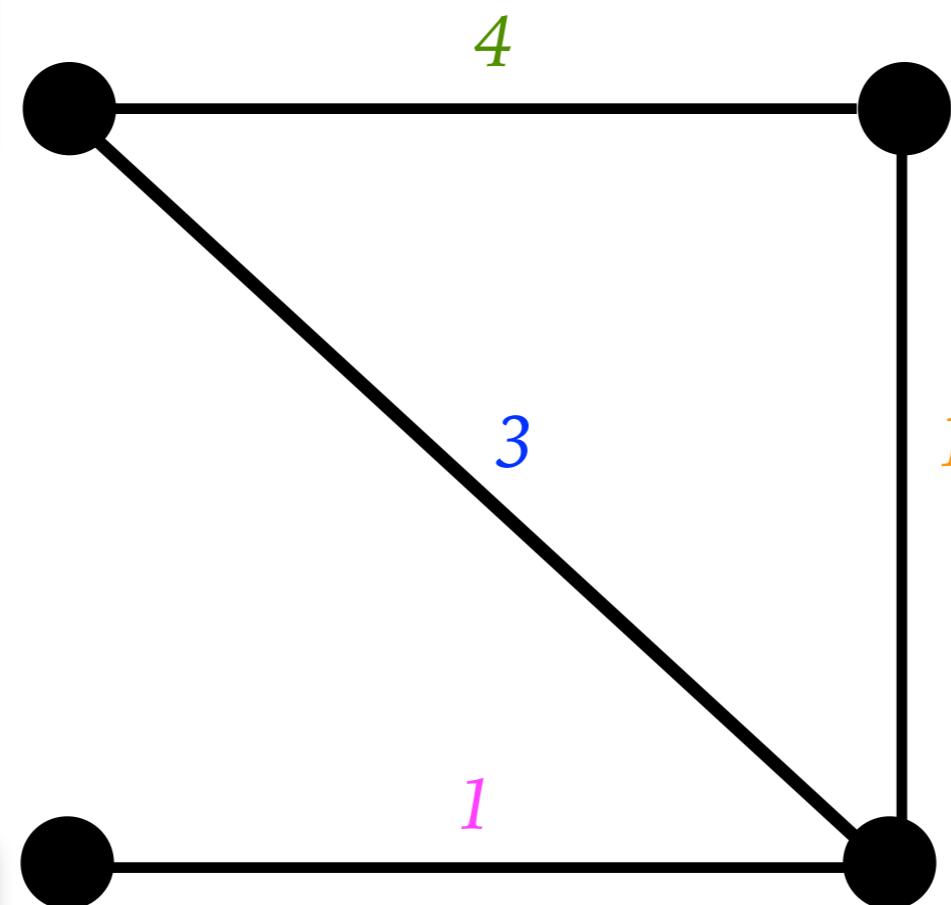
Members:

Fiona, Jack,
Kim, Lou, Mary,
Nick, Olga

Group: Former Tattoo Artists

Members:

Carla, Dan,
Ellen, Fiona,
Gerry



Community Detection

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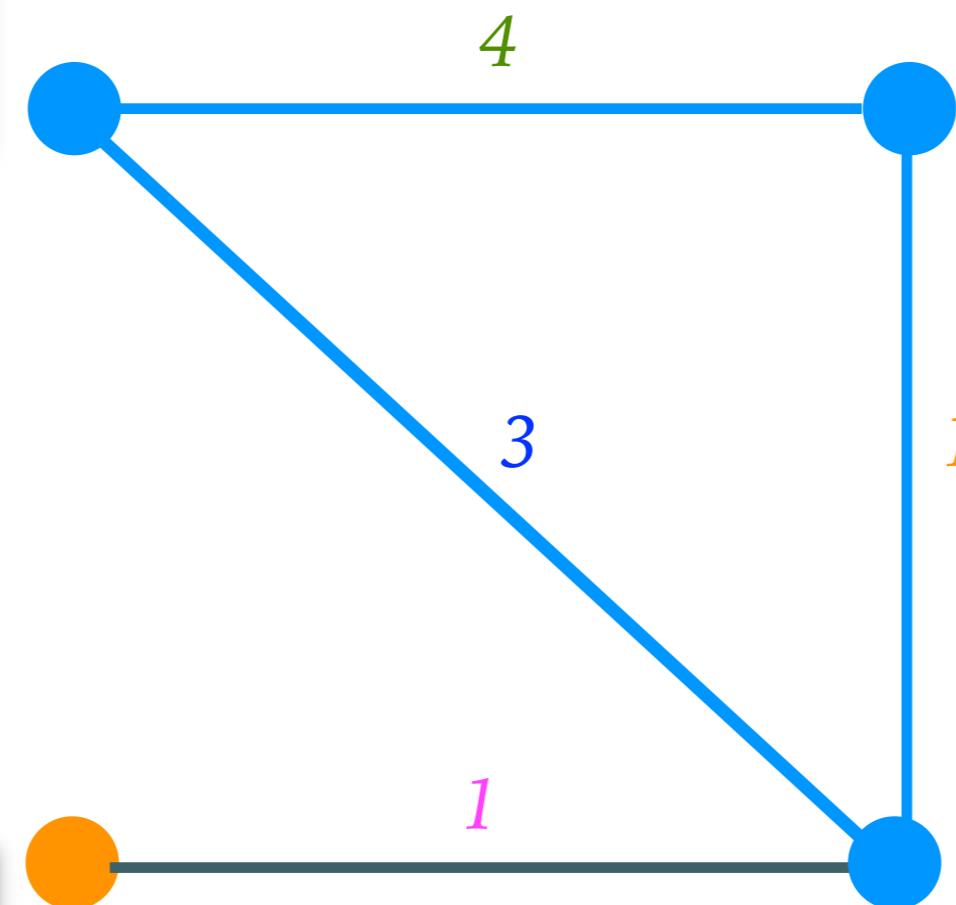
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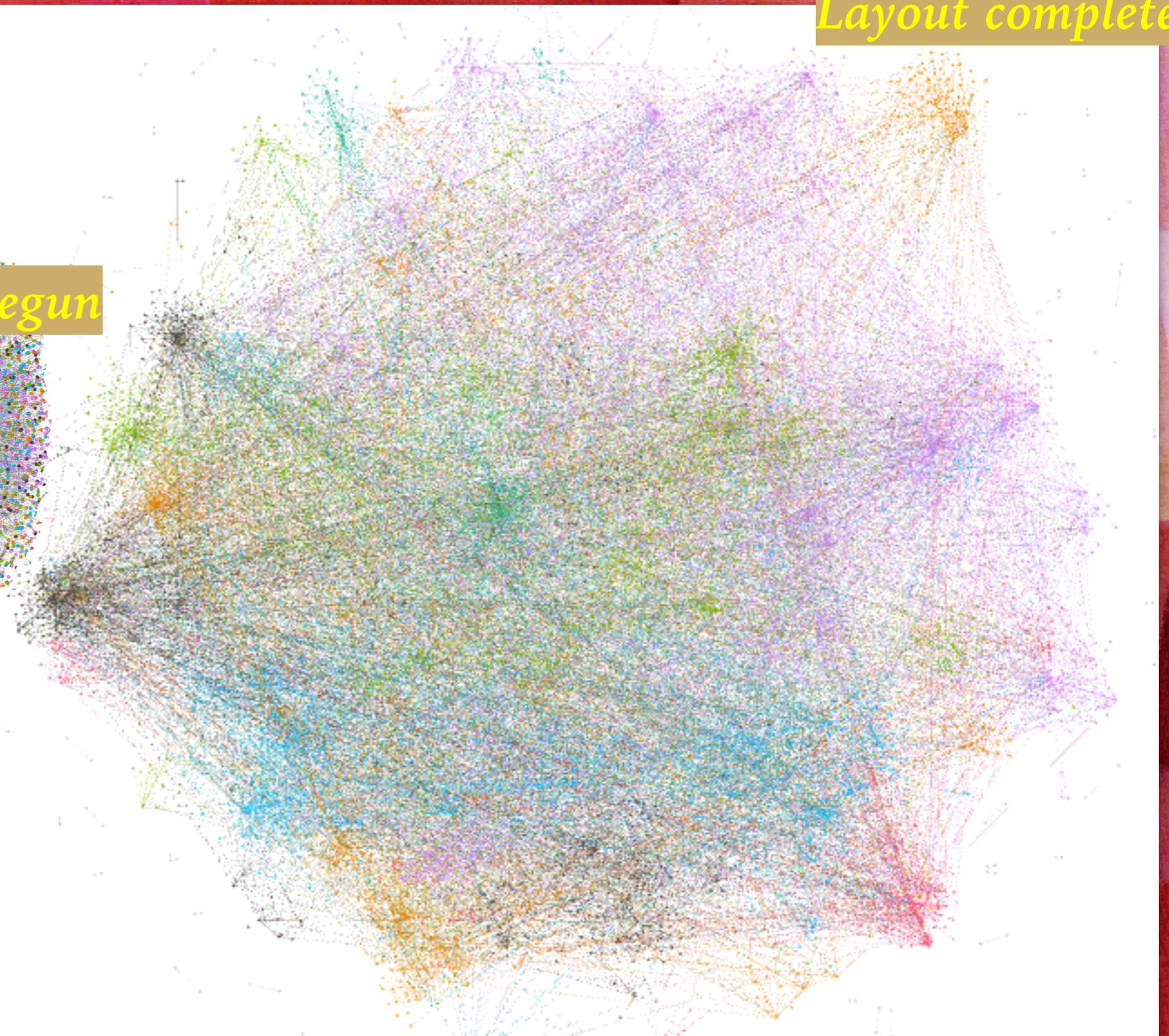
Initial graph

Large Graphs are Difficult to Visualize

Communities

Layout begun

Layout complete



Communities

(Meetup Group Names)

Marin County Euchre group (card game)

Never Too Late To Have a Happy Childhood even for grown ones

Tech in Marin

Marin Moonshiners Hike & Picnic

Sausalito 20-40's Sail Ski Social Meetup

Novato Cohousing Now Meetup

Marin Acoustic Guitar Group

Concord Wiki - All About Our City, Written

Got Wind and Water ...

Quest Hiking Group

Carl Jung and Active Imagination

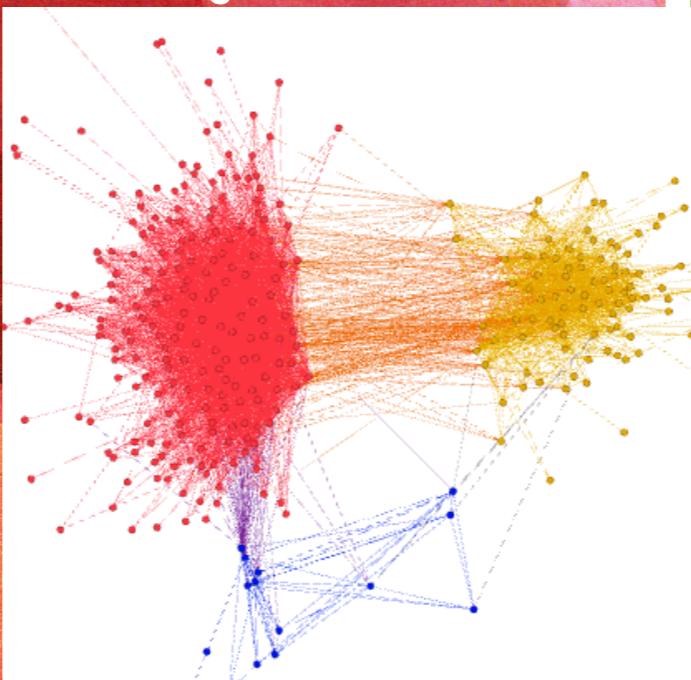
Point Reyes Station Ukulele meetup - 2nd Sunday

The Graceful Power of The Consciousness

Marin Meditation and Conversation Meetup

North Bay Mobile Drive-In

Kayakers' Alliance



The Borg

Hotspot 2.0 (SF Bay Area)

Sports Hackathon

Crowdfunding Valley

The Business of Coworking

Hello World! SF

Khan Academy (Unofficial) Study Group

Elevator Pitch Practice -Record Your
Presentation, Brush up

Friends of Canadian Wilderness Meetup

An Alternative to Dating as Usual

Decriminalize Prostitution!

OneTaste East Bay

Real Pleasure Marin

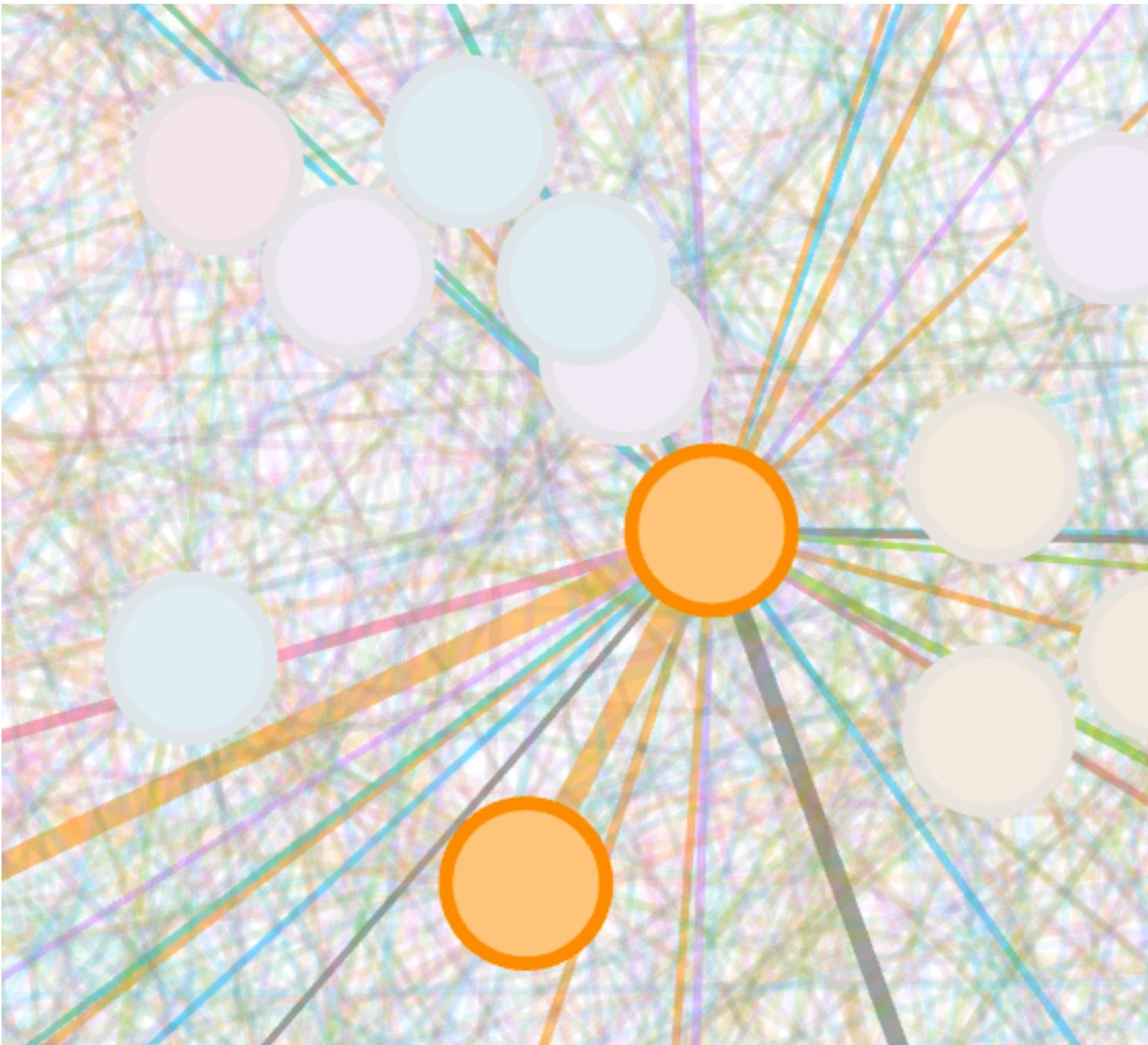
Cougar Parties & Cruises

Date Me, If You Dare

Tantra with Moneeka

Sequoians Nudist Park, Castro Valley Ca.

Get a sense of where your neighbors are going



Questions?

Filip Machi
galvanize@fil.fmachi.net
<https://github.com/nitecascade/solid-funicular>

Community

(Meetup Group Names)

- Crowd-tasting: Whisky and other spirits [SF]
- Happy Hour Club
- New York Giants Fans Unite in San Fran
- The San Francisco Live Indie Music Group
- Mission Dive Bars
- The NY Yankees Unite in SF
- Women who like Beer
- Chicago Sports Fans in the Bay Area
- San Francisco Chicago Bears Fans -Bear Down!!
- Bay area Hockey fans!
- San Francisco Homebrewers Guild
- San Francisco Fighting Illini Sports Fans
- San Francisco Notre Dame Football Meetup
- Sirwisa Brewing Collective
- San Francisco Scotch and Whisk(e)y Meetup
- SF Bourbon
- Alcohol Alchemy - Learn. Make. Share.
- Rose Kingz Mens Basketball Tournament
- SF Young Professional Canadian Expats
- Bay Area Beer Socials