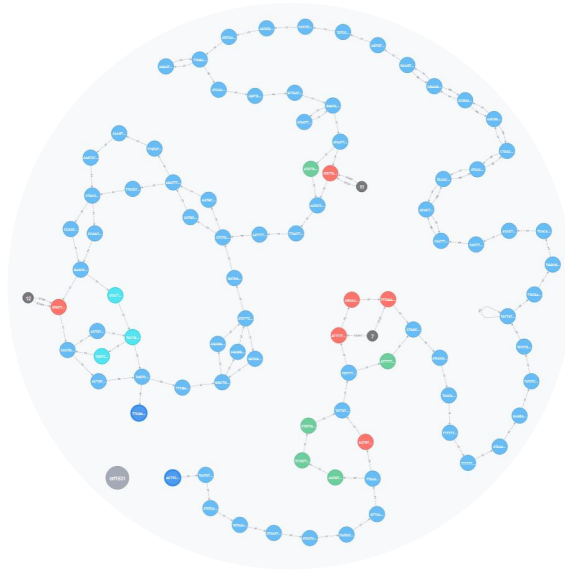


TKI visual analytics for plant pangenomes

VLBPB

5-10-2020, Sandra Smit



A bit of history...



One hour of visual analytics

- Sandra
 - Mission
 - Vision
- Astrid
 - Strategy
- Michel
 - Expectation management



Mission

■ Team Visual Analytics for Plant Pangenomes



Astrid van den Brandt

- Promovendus
- TU Eindhoven



Michel Westenberg

- Promotor
- TU Eindhoven



Sandra Smit

- Co-promotor
- Wageningen University



Bernard de Geus

- VLPB
- Coordinator



Anna Vilanova

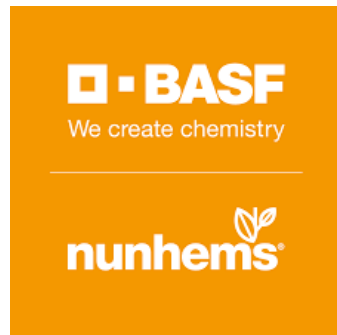
- Co-supervisor
- TU Eindhoven

Mission

■ 9 VLPB partners

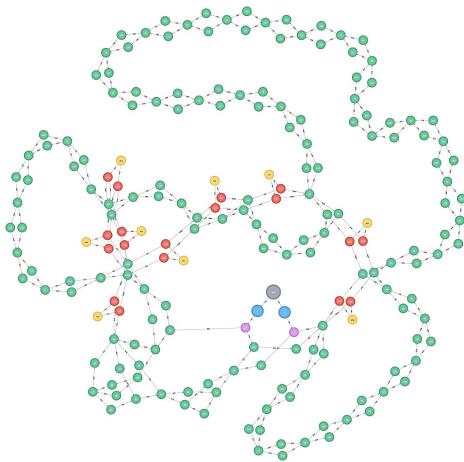


EAST-WEST SEED



Mission

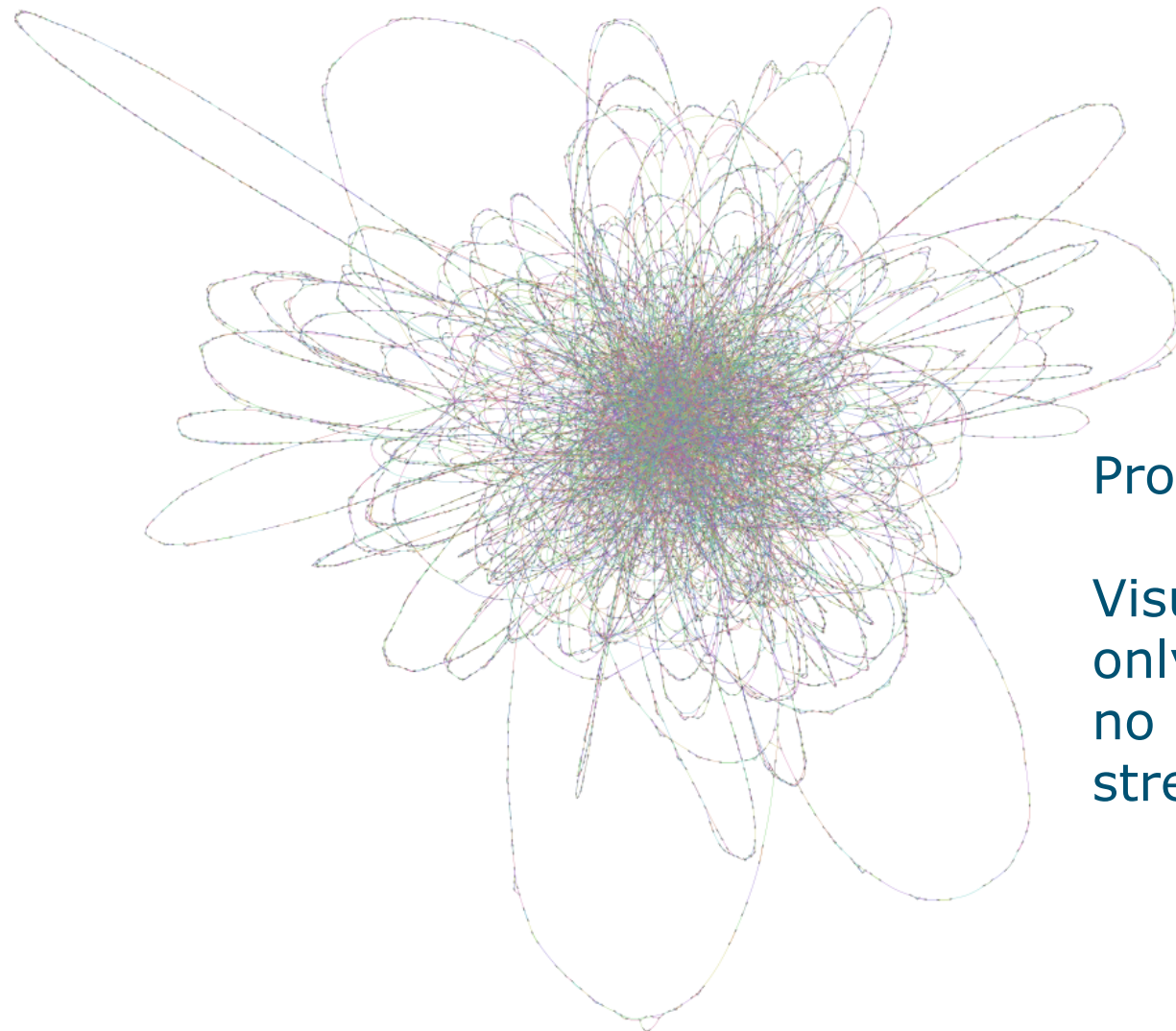
- To empower plant breeding by designing visual analytics solutions for plant pangenomes



Vision

- 18-month partnership with VLPB
- **Develop a visual analytics toolkit for large crop pangenomes, as constructed by PanTools**
 - Design study
 - Two use cases
- Deliverables
 - Prototype implementation with novel visualizations for plant pangenomes
 - Open source software, extension to PanTools

Vision

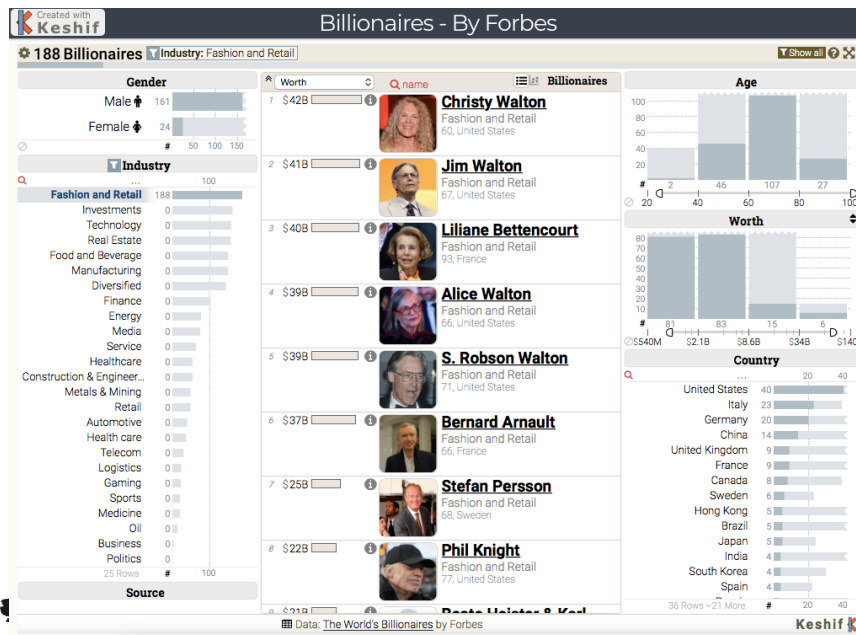


Proposition:

Visualizing graphs will be only marginally successful, no matter how we twist, stretch, or color them.

Smart visualization

- Need dashboard-like system to browse pangénomies
 - Control panel
 - Graph view for big picture or navigation, but not interpretation
 - Translated, informative, views



Resources

■ People

■ Time

Y1	Y2	Y3	Y4
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- 17-8-2020 => 17-2-2022 (18 month partnership)
- 17-8-2020 => 17-8-2024 (PhD position)

■ Money

- Company contribution
 - 30K in kind -> software testing
 - 30K in cash
- TKI public funding: 60K in cash

Coming up

- Strategy
 - Design study
 - Use cases
 - Prototypes
- Timeline
- Communication
- Expectations and examples