

Workshop Ouest-France - iCoda

Unfolding Storylines:

Narrative representation of multivariate knowledge
and evolution of relationships

June 24, 2019

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Workshop

Goal:

- Understand your needs
- Verify important tasks for you
- Show prototype

Plan:

- About you
- About us
- Our tool
- Tasks we try to support
- Other possible tools

We'd like your Feedback at all steps of the workshop

About Us

ILDA

visualization and hci research team

iCoda

project between teams that:

- can extract knowledge - LINKMEDIA : entities from text

 - E.g., topic threading and tracking (stories merge / split)

- can generate knowledge - GraphIK : make inference

 - E.g., from politician name recognise party or family (through connections)

- can query this knowledge across sources - CEDAR

 - E.g., databases from elections and web articles or blogs, open european sources

and visualize it (us)

About you

1) Some background

- Experience

- Data you work with (text, DB, other?)

- Workflow and challenges in last stories (tools + process)

- Normal workflow (from question to story to article)

- Collaboration with other journalists (how sharing happens + process of writing a shared article)

About you

2) Some needs

What entities are important for you (news topics, people, places, organizations, roles)?

What makes them important and how do you reach them?

(chance, frequency, word of mouth, current events)

think of past story examples?

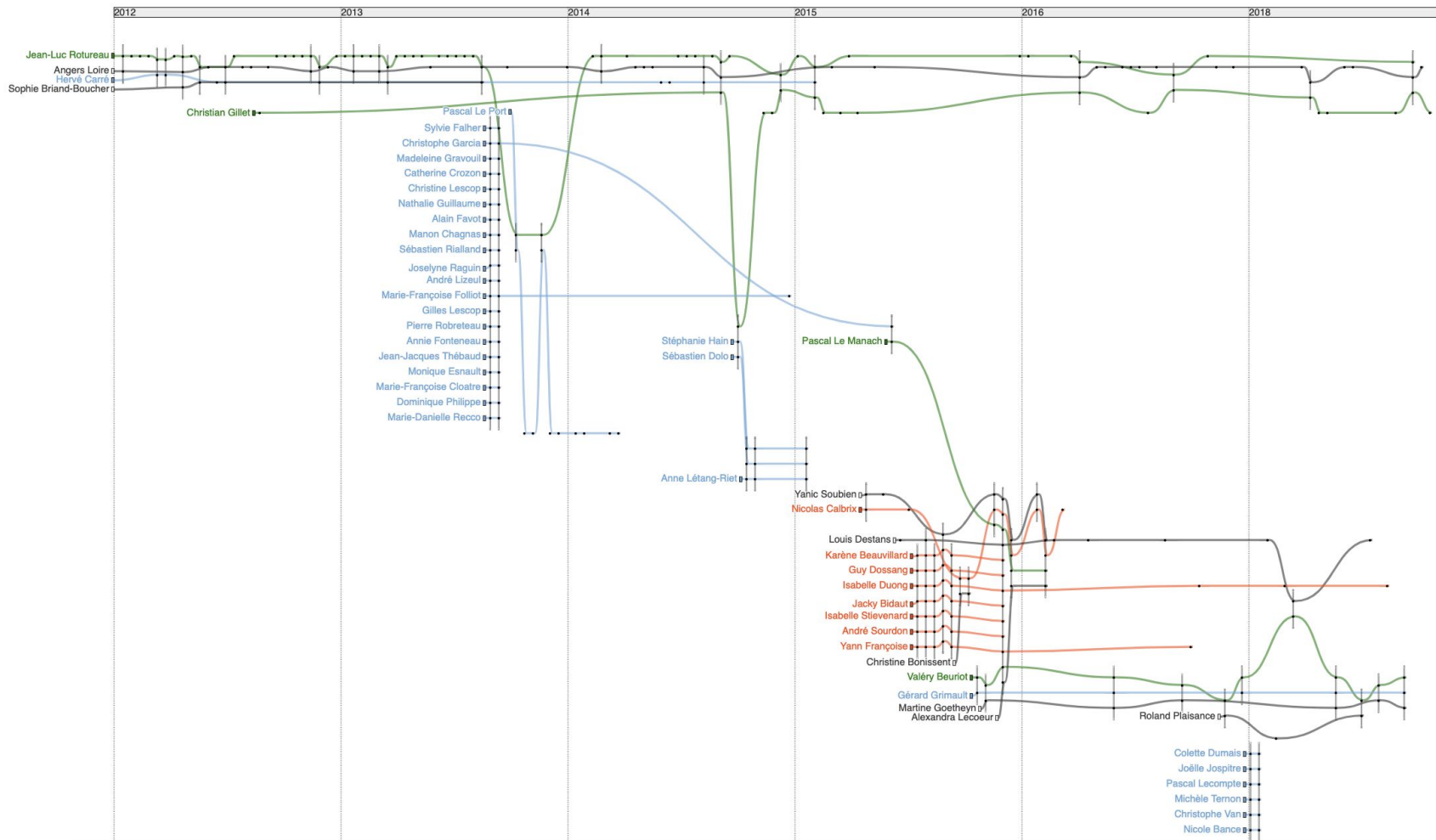
What relationships between them are important for you ?

What has been important in past stories?

(companies or parties two people are part of, events they frequent together)

think of past story examples?

Demo and test of our tool



How to start?

Social network measures

With these measures, we can identify possibly important actors.

Individuals in our tool

Hubs (red):

A person that connects a lot of different people

Bridges (green)

A person that connects different cliques / (communities?)

Islands (blue)

A person that is isolated and connected to nobody

Other notions of importance for you ? E.g., frequency (degree)

Connection patterns

Cliques: A group of people where everybody is connected directly to everyone else

Hub-Cliques (red)

Island-Cliques (blue)

Diads: +++

Metrics of relations

What are important in terms of relationships

Currently we have co-occurrence relationships :

- Same day / same location / same organization
- Same day + same location
- Same day + same organization
- Same day + same article

Other interpretations?

Appear often in same locations

Customize what a relationship is

Metrics of relations

What are important in terms of relationships

iCoda will provide multiple new types of relationships

Tasks identified from previous communication

[Task1] Co-occurrence

Which year do Jean-Luc Rotureau and Sophie Briand-Boucher are mentioned together?
How often do Jean-Luc Rotureau and Sophie Briand-Boucher coincide with each other?
How often do Jean-Luc Rotureau and ecology appear together? Or history of the two.
(keyword entities)

[Task2] “Similar” entities

Identify group of people that are often mentioned in same locations (commune de Ouest)?

All actors in a conseil and their relationships? (check OF for geographic data)

Roles / functions (conseil municipal / regional / agglomeration)

Motif of demission (check with OF)

Political groups and/or Sex (who quits more often)

(aside, possible information that comes from EU related to parties and/or sex and)

Other examples of what is similar?

[Task3] Massive events

Identify Intensive occurrences of events and time, people, locations involved.

Which event included the most amount of people?

A community where everyone quits together? Or people quitting often one after the other
(view community)

[Task4] Characterizing events (one person quitting vs entire group quitting, reason of quitting)

Which person joined or quitted the red group ?

Crossing with political parties?

Motifs ("personal" or forced for political reasons, political reasons)

[Task5] ** (unsupported)****

Cascading events (e.g., similar events at different locations over time, may denote causality)

Example of a question? Vis cannot answer, likely to be determined by journalist ...

Other questions

Other important
entities

patterns/relationships (we will do inference)
(do you have past examples)?

Entities (dimensions) that are often looked together?

How many dimensions may be of interest at a given time?

Is it reasonable to see the entire dataset?

Starting points?

Other tools

Demo Jigsaw (not sure if it is interesting to show for comparison)

Hard to see relationships between more than 2 dimensions at time

