

Formality Across Mediums

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How Do People Communicate?

- On which platforms do people send messages?
Email, GTalk, Facebook, LinkedIn
- How formal are these messages?
Where are people more formal and informal?
- How do they change over time?
Tell the evolution of relationships
- What does the quantity of them say?
Does quantity predict medium or formality?

How Do We Measure?

Formality

- Structure
Signatures, full sentences, and proper punctuation are more formal
- Vocabulary
Word choice and emoticon usage can give clues to formality or informality

How Do We Measure?

Quantity

- Instant Messages look different from emails
Raw comparison of number would be meaningless
- Using words in each message as quantity
This gives us similar quantity for similar ideas
- Ignore one-way communication
Mostly spam or other uninteresting items

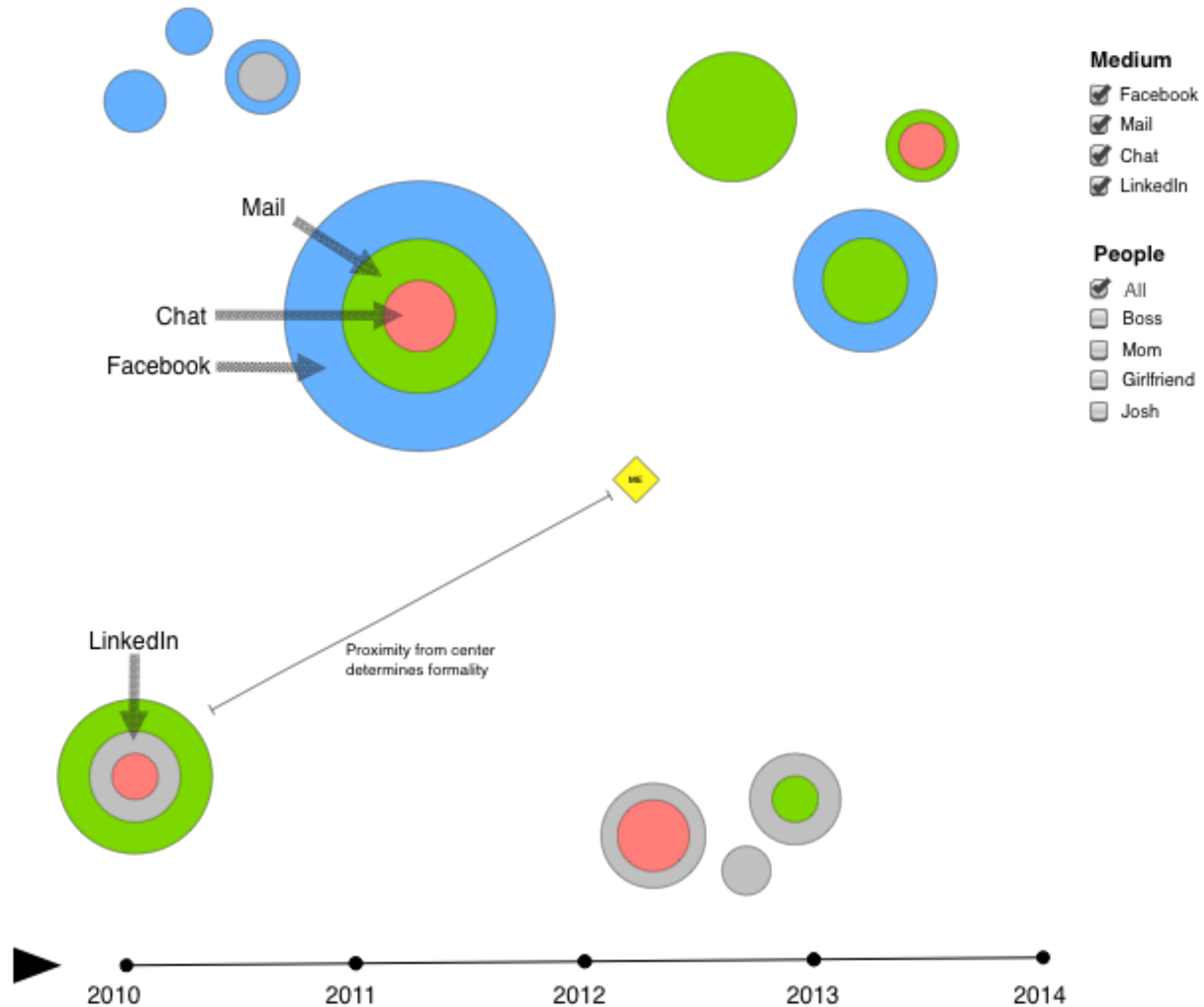
What Will We Do?

- Tell a person his or her story
Visualizations will be for personal usage
- Collect the data using a Python program
Our data sources provide APIs for this
- Produce JSON output for visualizing with D3
The program will score and aggregate formality

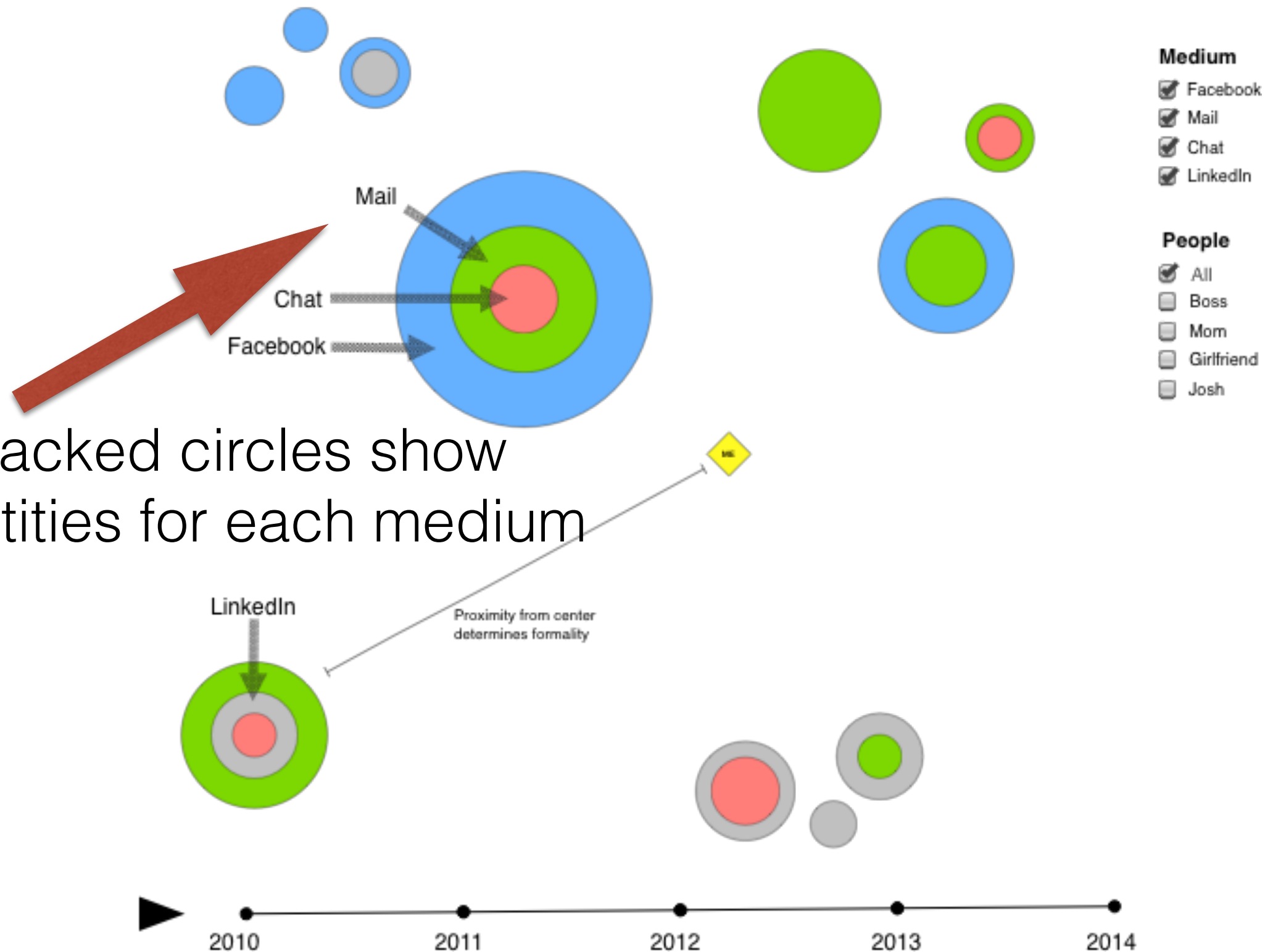
Why Are We Doing This?

- Hypothesis: Formal messages are mostly email
We want to see if IMs are generally less formal
- Hypothesis: More messages indicates informality
We want to see how quantity and formality correlate
- Storytelling: Communication over time
How does your formality change with a person over time? How does your usage of different message mediums change?

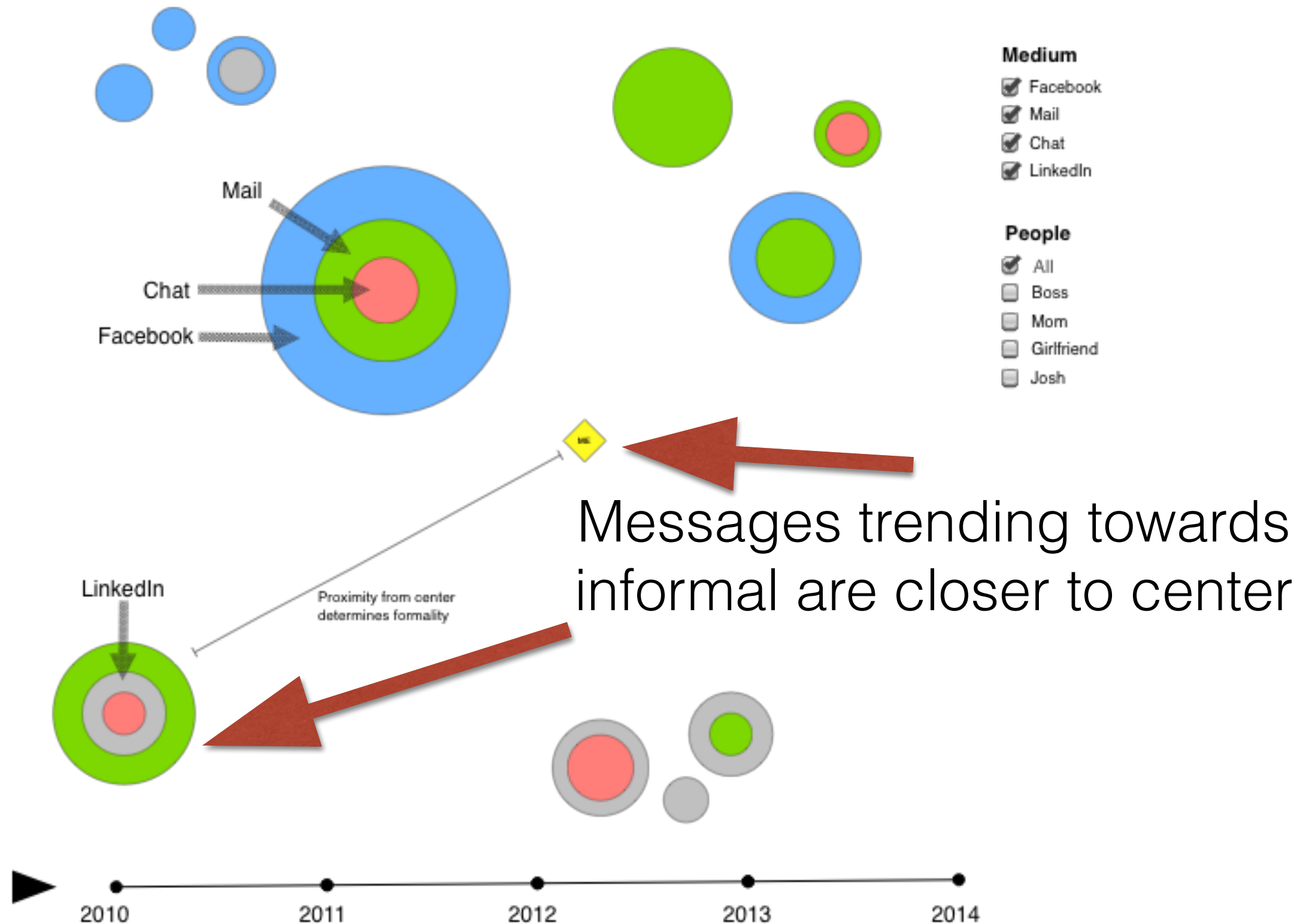
What Will It Look Like?



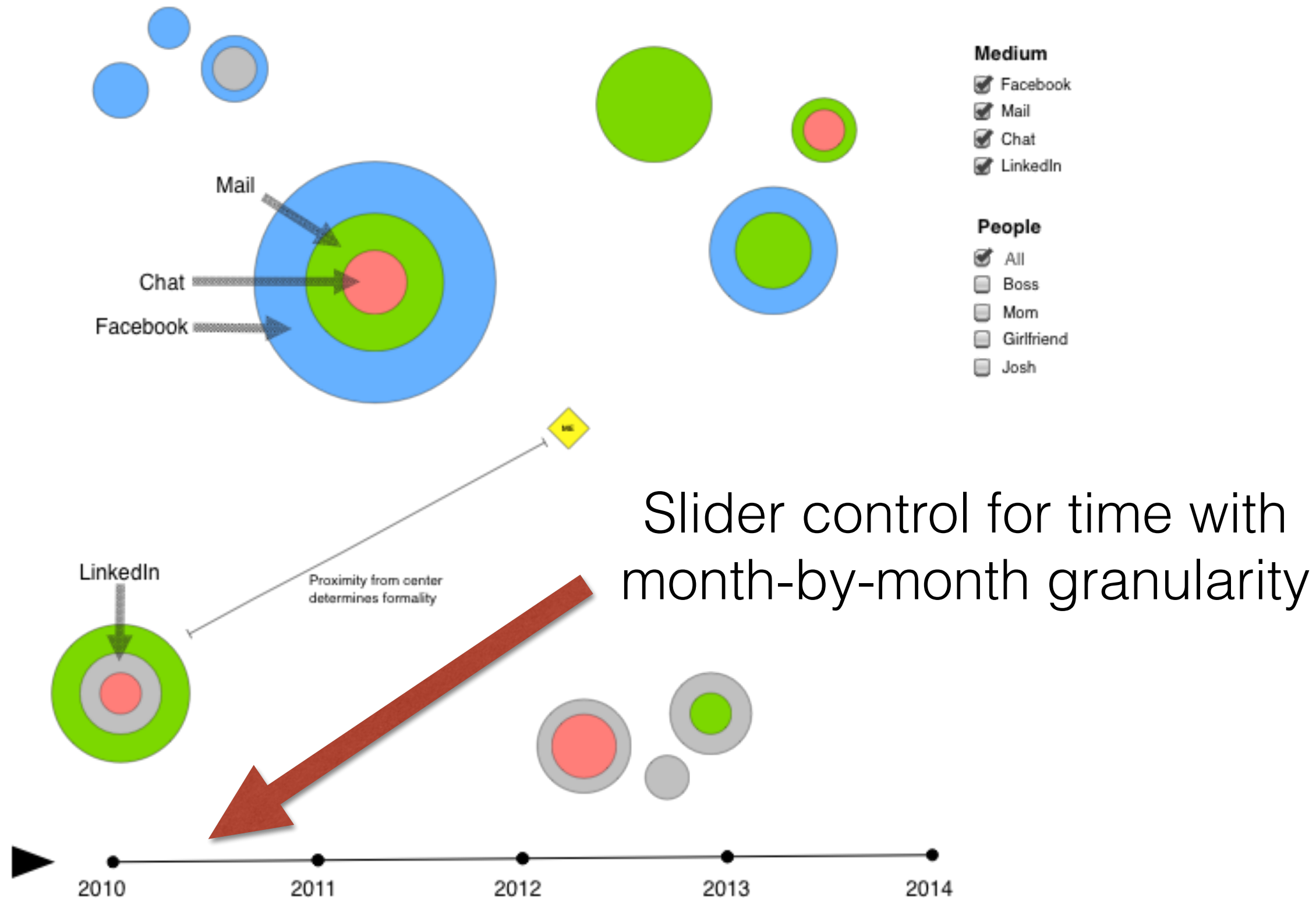
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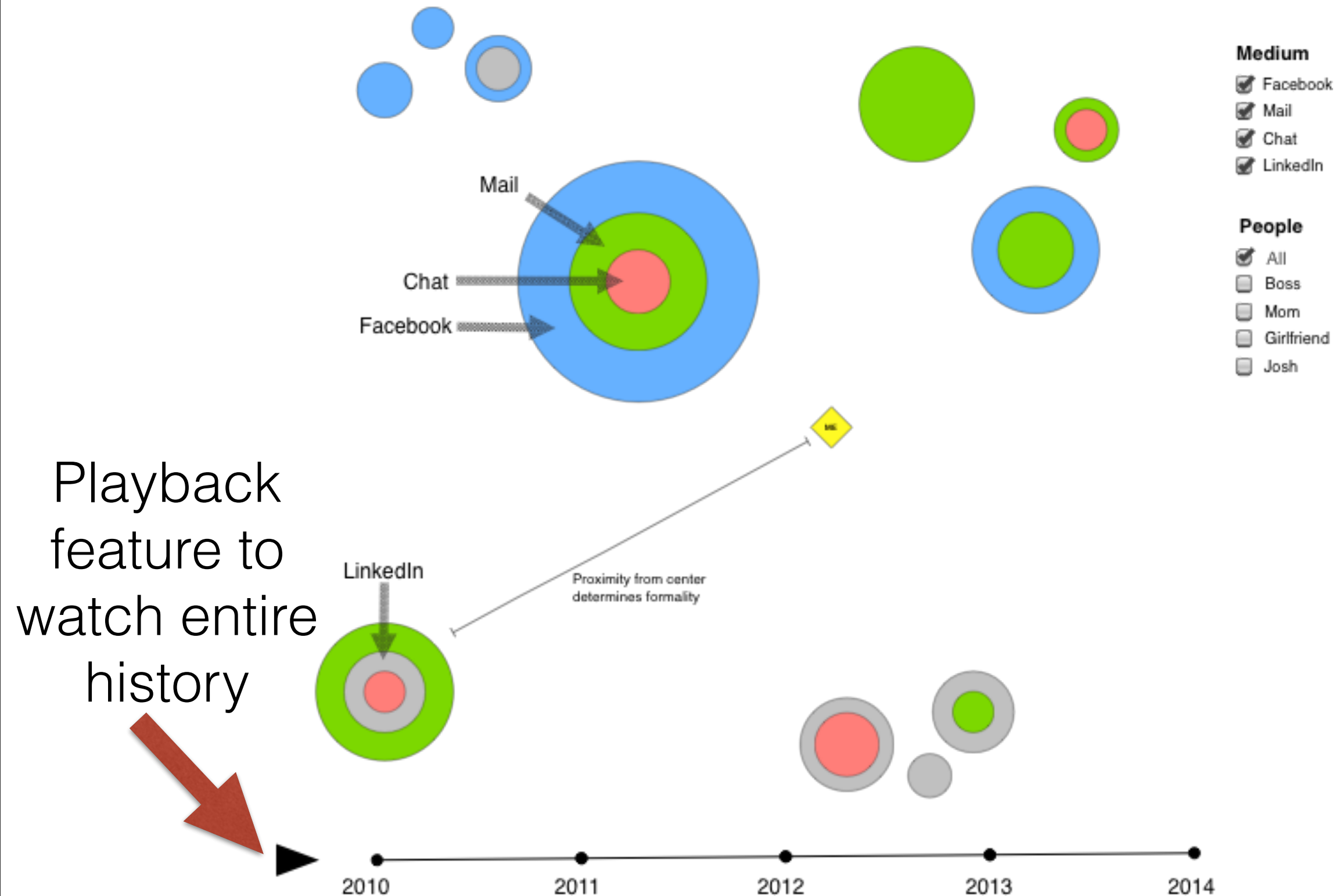
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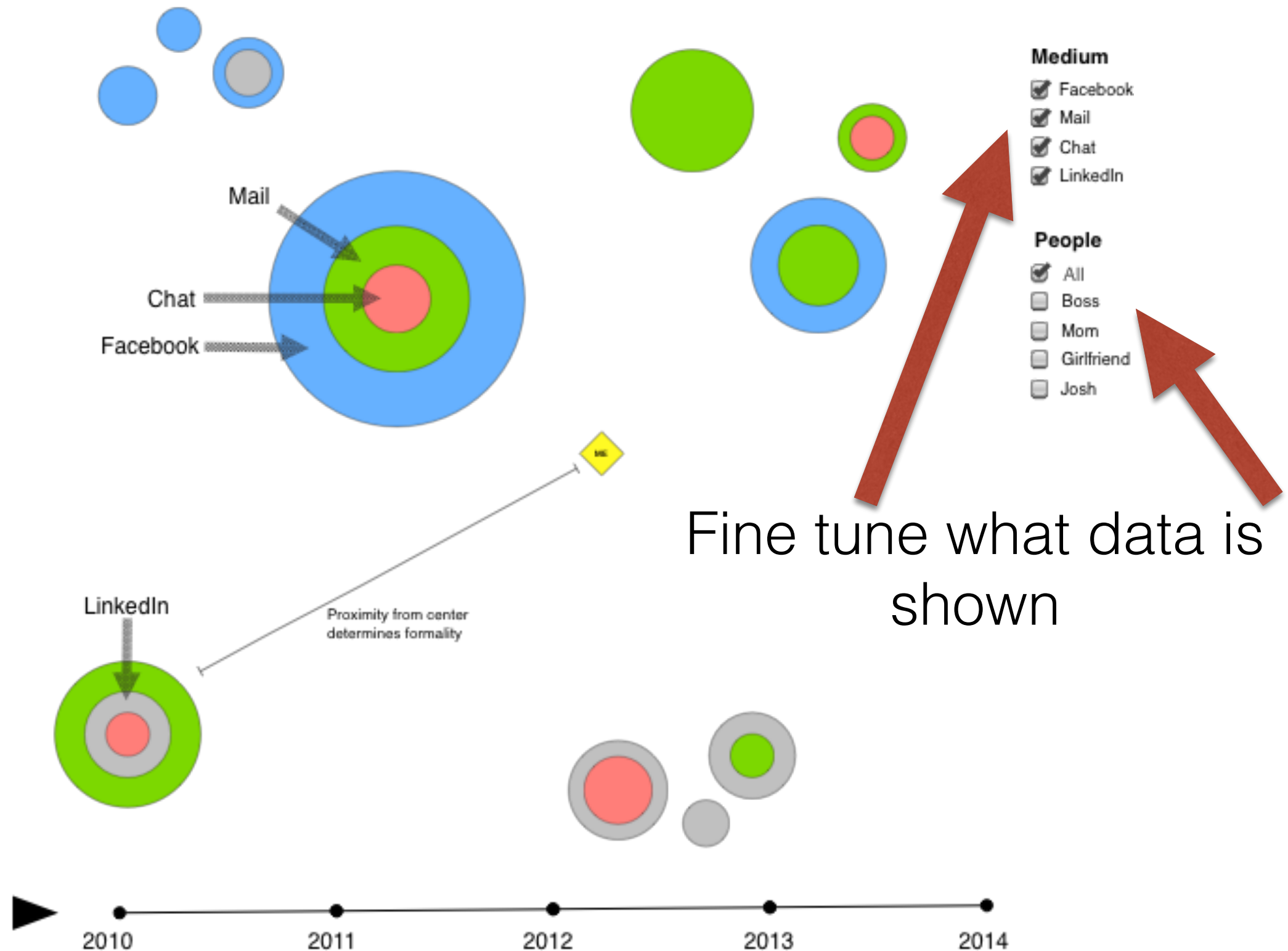
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Thanks!

Any questions?