

A decorative vertical bar on the left side of the slide. It features a gradient background transitioning from light orange at the top to light teal at the bottom. Overlaid on this are several clusters of circles in various shades of teal, blue, and light green, arranged in a vertical, somewhat irregular pattern.

# **On the Fringe:** A Visualization Tool to Support Literature Review

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CPSC 547

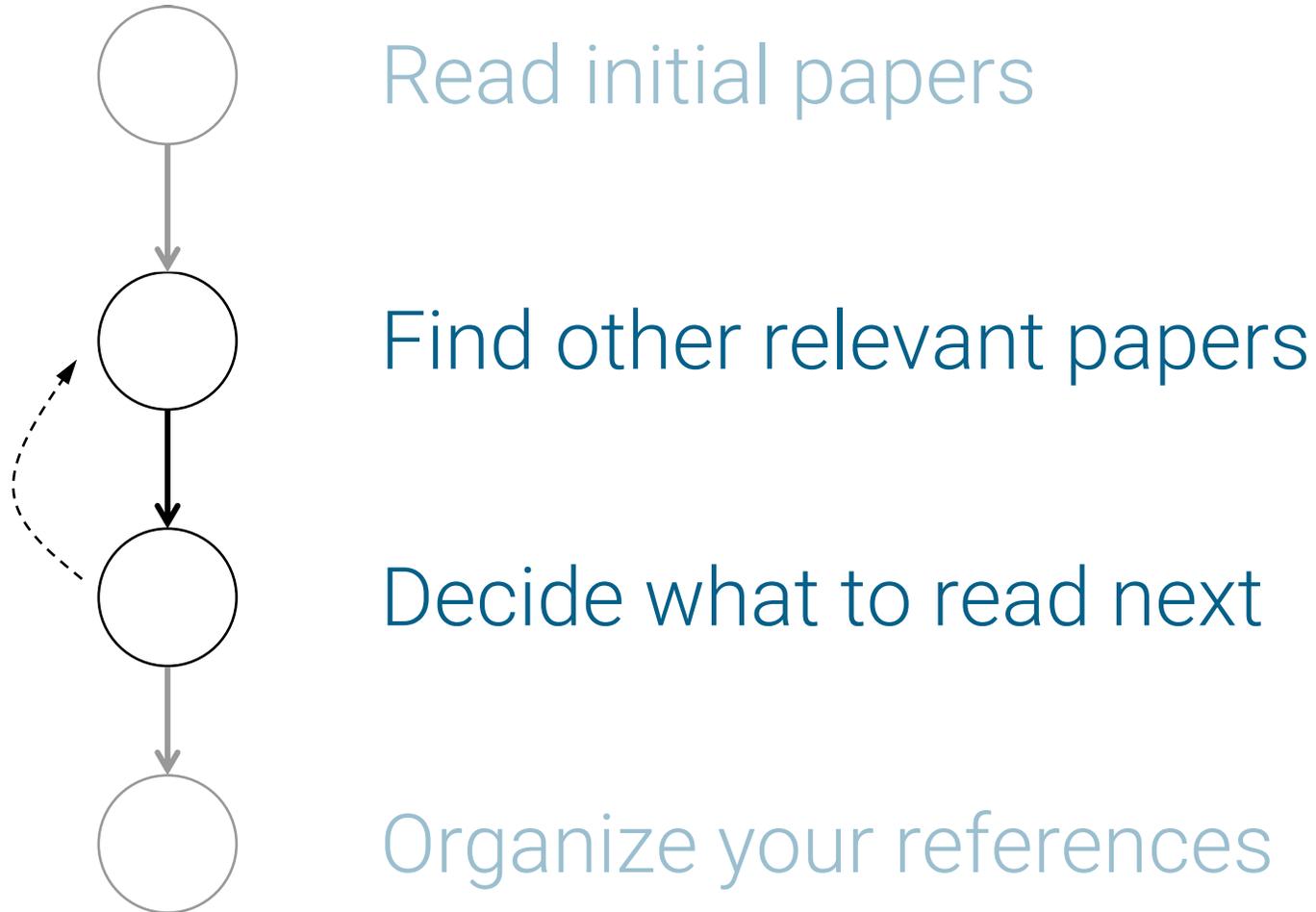
# Paper Data

- CHI & UIST papers (from Autodesk)
- Year, authors, title, abstract, DOI and citation count
- 3501 papers

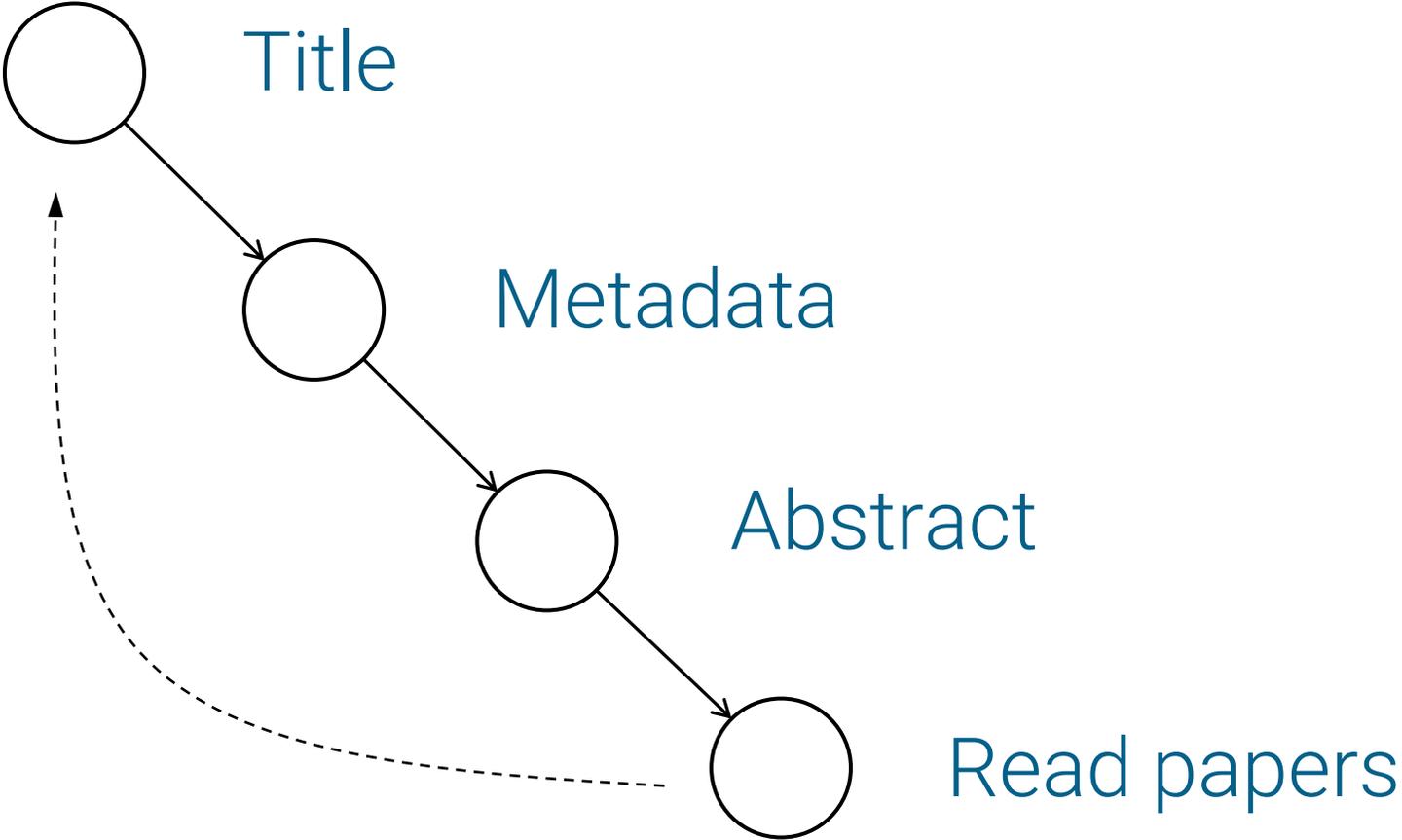
# Network Data

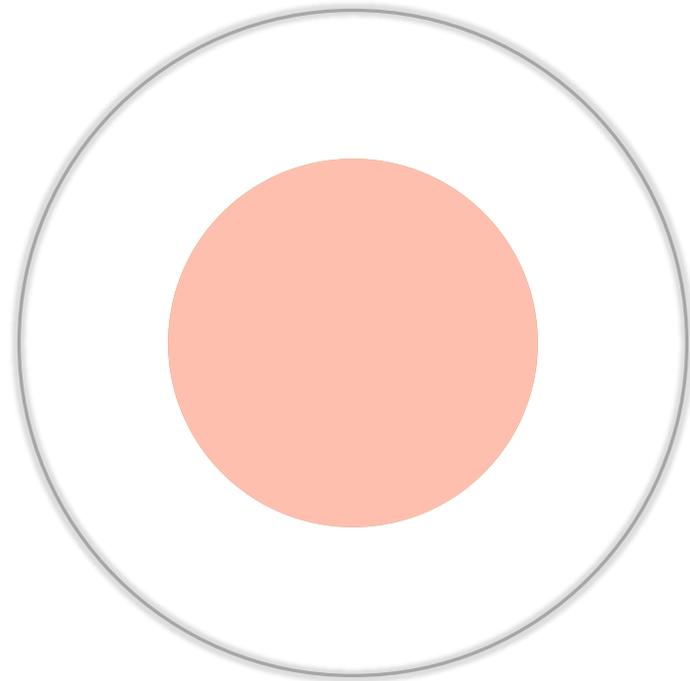
- References between papers = directed links
- 27587 links

# Why: Exploration



# Multi-level Decision Process





# How: Encode

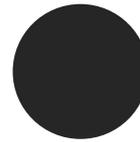
internal citation count

external citation count

connectivity score

# How: Encode

internal citation count  
external citation count



connectivity score



# How: Encode

internal citation count  
external citation count



connectivity score



# Scale

**dozens** of papers per view

**dozens** of links

no **aggregation**

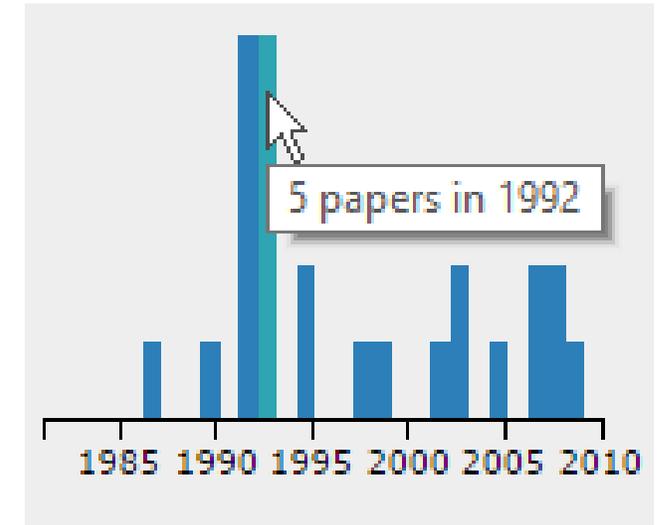
# Future work

linked highlighting

filtering

search

give control over algorithm weights



# Conclusion

Finding papers & deciding which one to read

Custom relevance algorithm  
(citation counts + connectivity)

Size, color, links, semantic zoom & faceted views

The image features a decorative vertical bar on the left side, composed of a light orange block at the top and a light red block at the bottom. A vertical line of various-sized circles in shades of blue, teal, and yellow runs along the right edge of these blocks. The main background is white, with a teal horizontal band at the bottom.

# Thank you.

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