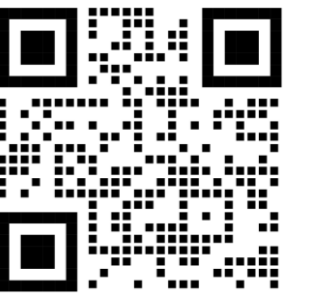


A Scoping Review on How HCI Researchers Visualize Thematic Analysis Results



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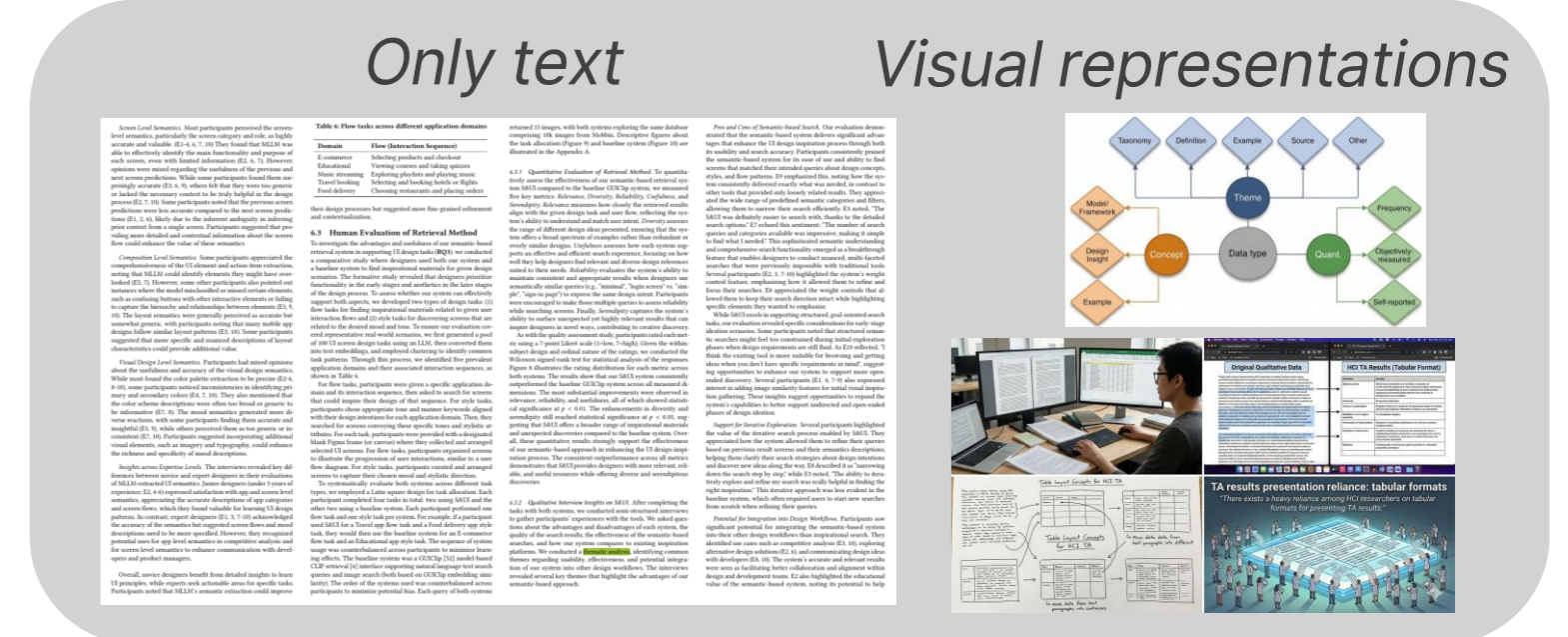
• Thematic Analysis (TA) and Result Reporting

A method for identifying, analyzing, and interpreting patterns of meaning within qualitative data.



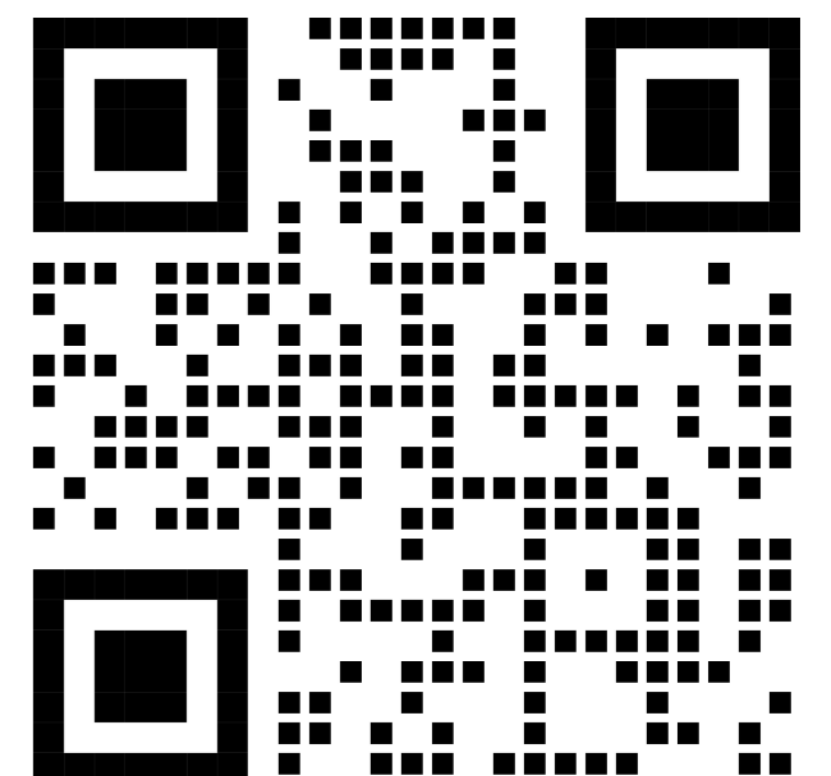
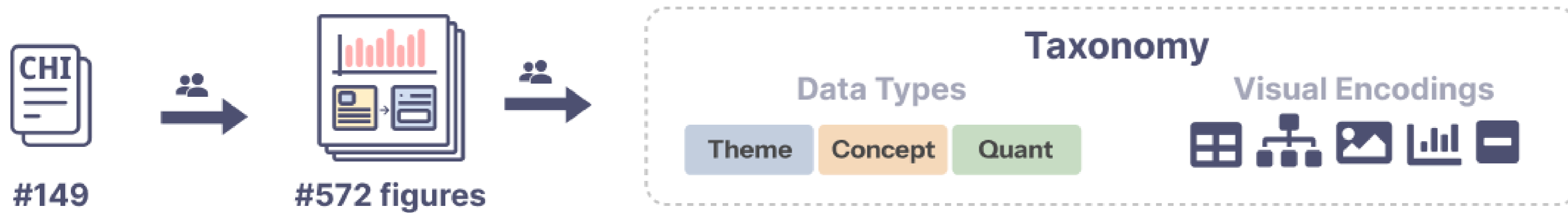
• Research Question

What are the current practices of HCI researchers in using visual representations of their findings in thematic analysis?



• Scoping Review of CHI articles

Collected 149 articles that include "thematic analysis" in "title" or "abstract", and extracted 572 figures/tables from collected articles.



<https://taresultvis.github.io/>

Data type

• Taxonomy

Visual encoding

The type of TA result being communicated

| | |
|---------------------------|---|
| Theme (331) | Direct outcomes of thematic analysis representing recurring patterns of meaning related to the research question. |
| | Taxonomy (59) Definition (55) Example (188) Frequency (64) Other (20) |
| Concept (76) | Higher-level abstract ideas derived by further refining the initial themes. |
| | Model/Framework (42) Design insight (29) Other (5) |
| Quantitative (159) | Numerical data metrics directly related to or measuring the themes. |
| | Objectively-measured (88) Self-reported (71) Other (0) |
| Misc. (10) | Miscellaneous data types that do not fit into the primary data type taxonomies. |

The graphical techniques used to represent result

| | |
|---------------------|--|
| Grid (206) | Structured visual representations organizing data into a grid of rows and columns. |
| | Table (183) Matrix (4) Heatmap (11) |
| Diagram (75) | Schematic representations illustrating relationships between conceptual entities. |
| | Network (38) Block (21) Venn (5) Onion (2) Timeline (2) Other (5) |
| Image (176) | Visual representations capturing a specific scene or concept visually. |
| | Photo (50) Screenshot (73) Sketch (18) Illustration (62) |
| Chart (111) | Graphics mapping quantitative data to distinct visual elements. |
| | Bar (38) Group (12) Stack (12) Divg. (6) Range (35) Line (16) Dot (19) Box (9) Other (9) |
| Misc. (8) | Miscellaneous visual representations that do not fit into the primary visual encoding taxonomies. |

• Findings: Pattern exists between Data types and Visual encodings.



• Future Work

- Integration of various HCI fields
- In-depth quantitative analysis
- Expert interview and qualitative analysis

