

Primer on Grounded Theory

Jeffrey Young

June 28, 2017

Executive Summary

What is Grounded Theory

Why is it of use to XOP project?

How will it be used for the project?

Other considerations

You may want to look over the "Reference that will be useful" section as this paper is well sources, and is a good branching point for other papers to check out. I've highlighted some interesting ones.

Context

This document is for the XOP Encoding project, participants include Eric Walkingshaw and Jeffrey Young. This is the fourth such primer in the project, the first one is a primer on DN-Theory, the second a primer on typologies of explanation, specifically Bellack et al's typology, the third on Dan Hillman's PhD thesis. This document is meant to provide a decent summary for understanding grounded theory. We are interested in grounded theory because it offers a rigorous, scientific method for determining sets of tags or "codes" from varied documents. In terms of our work, we believe that a comprehensive set of codes, or rather, an ontology of algorithm-explanation descriptors will serve as the basis for an XOP-based DSL.

Orientation

This document is meant to explicate three things:

1. What is Grounded Theory?
2. Where did Grounded Theory come from?
3. How does one *do* grounded theory?
4. What will grounded theory applied to the XOP project look like?

Sources

This primer was drawn from the following sources:

1. A youtube lecture series by Graham R. Gibbs: https://www.youtube.com/watch?v=4SZDTp3_New
- 2.[1] 3.[2]

References

- [1] K. Charmaz. *Constructing Grounded Theory: A Practical Guide through Qualitative Analysis*. Introducing Qualitative Methods series. SAGE Publications, 2006.
- [2] J. Corbin, A. Strauss, and A.L. Strauss. *Basics of Qualitative Research*. SAGE Publications, 2014.