

1116-T5-2300 **Luke Wolcott*** (luke.wolcott@lawrence.edu). *Gardens of Infinity: Cantor meets the real deep Web.*

The real deep Web – curated, visceral, profound – is an antidote to oversaturated webpages of words and mindless viral videos. The content complements logical arguments with stories and meaningful prompts to contemplate. The format moves away from walls of text towards high-concept design that encourages deep thought.

The Gardens of Infinity project is a collaboration between a mathematician, an interaction designer and a programmer. We present five provocative statements from Cantor’s set theory (for example, of course, $|\mathbb{Z}| < |\mathbb{R}|$), and the translation between rigorous mathematics and metaphor is carefully articulated. Each statement branches down four paths: the user can read a rigorous proof of the statement, a shorter more accessible summary argument of the statement, the story of the people and events surrounding the statement, or a philosophical discussion of what it might mean. These last sections – sometimes presenting conventional philosophical interpretations, sometimes unapologetically metaphorical – are in a sense the real meat of the project, leading the user to contemplate infinity in new ways. My talk will explain and demo this web project, which may or may not be up at gardensofinfinity.com by the time of the conference. (Received September 22, 2015)