

# **IDBM ADVANCED TOPICS**

Qualitative analysis in design research  
- do the results "just emerge"?

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Aalto University, School of Business,  
Dept. of Management Studies (IDBM)

**MANY PEOPLE, ESPECIALLY IN DESIGN  
DOMAIN, STRUGGLE WITH "ACADEMIC  
REQUIREMENTS" IN RESEARCH**

**THIS IS UNNECESSARY.**

**DESIGN RESEARCH CAN  
BE ACADEMICALLY  
SOUND – AND ACADEMIC  
RESEARCH IS NOT  
INCOMPATIBLE WITH  
DESIGN MINDSET.**

## Design Research

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Focuses on people

---

Can be qualitative or quantitative

---

Borrows from the social and behavioral sciences

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**Attempts to *understand culture*. Looks at the styles, words, tools, and workarounds people use in an effort to inspire design.**

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***Celebrates* the unique and peculiar. The rare or obscure in observations can lead to a new or interesting design idea.**

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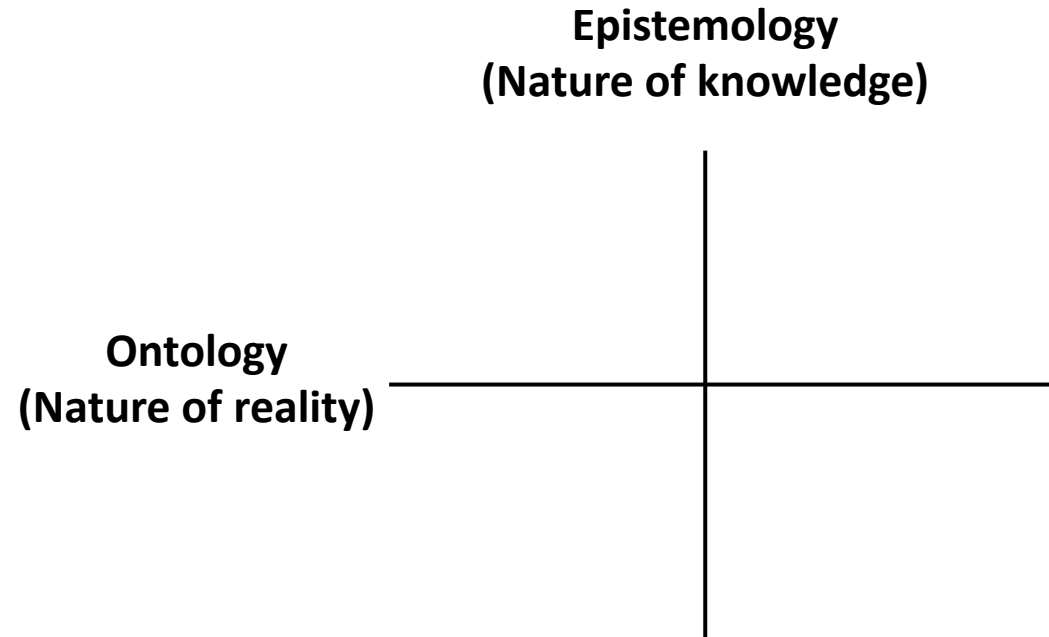
**Avoiding bias is *irrelevant*. The goal is not to be objective but instead to be rigorous.**

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**YOU JUST HAVE TO KNOW WHAT KIND OF  
RESEARCH YOU ARE DOING.**

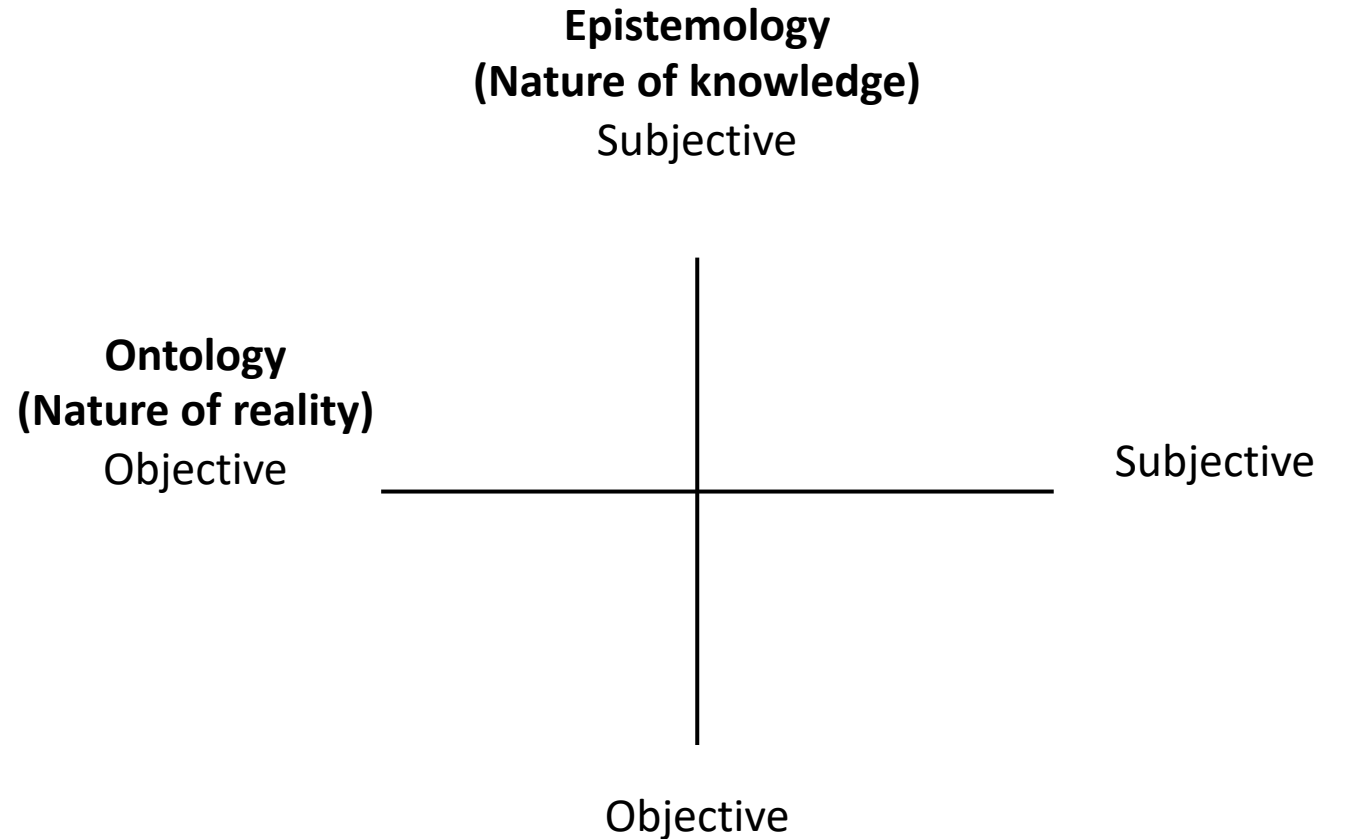
# PICK YOUR VENUE: THERE IS NO SINGLE "ACADEMIC RESEARCH APPROACH"

- The key difference: how do we answer to the questions
  - “what is reality”, nature of reality (ontology)
  - “what and how can we know”, nature of knowledge (epistemology)



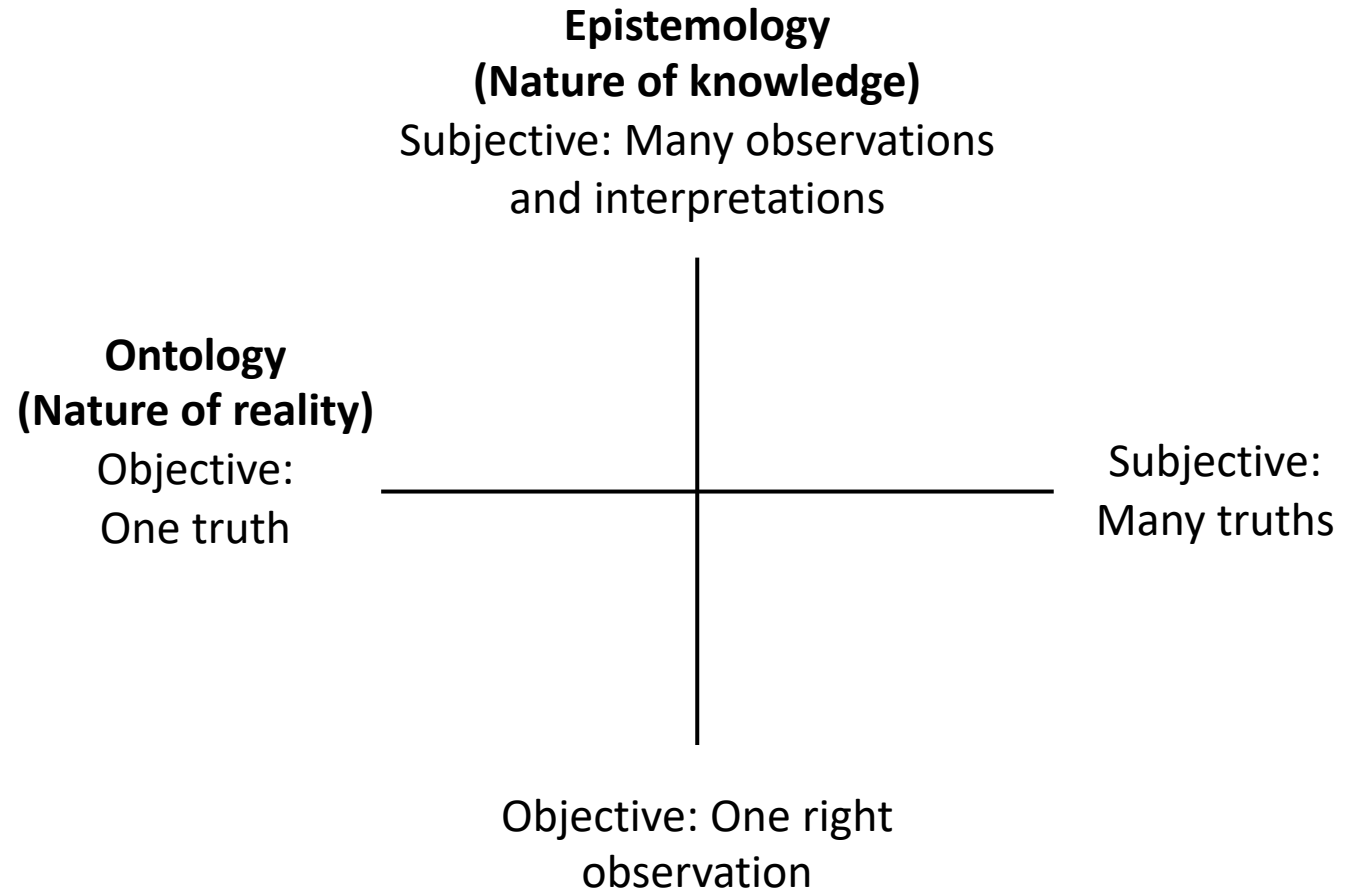
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# PICK YOUR VENUE: THERE IS NO SINGLE "ACADEMIC RESEARCH APPROACH"

**Epistemology (Nature of knowledge)**

Subjective: Many observations, and interpretations

**Ontology  
(Nature of reality)**

Objective:  
One truth

Subjective:  
Many truths

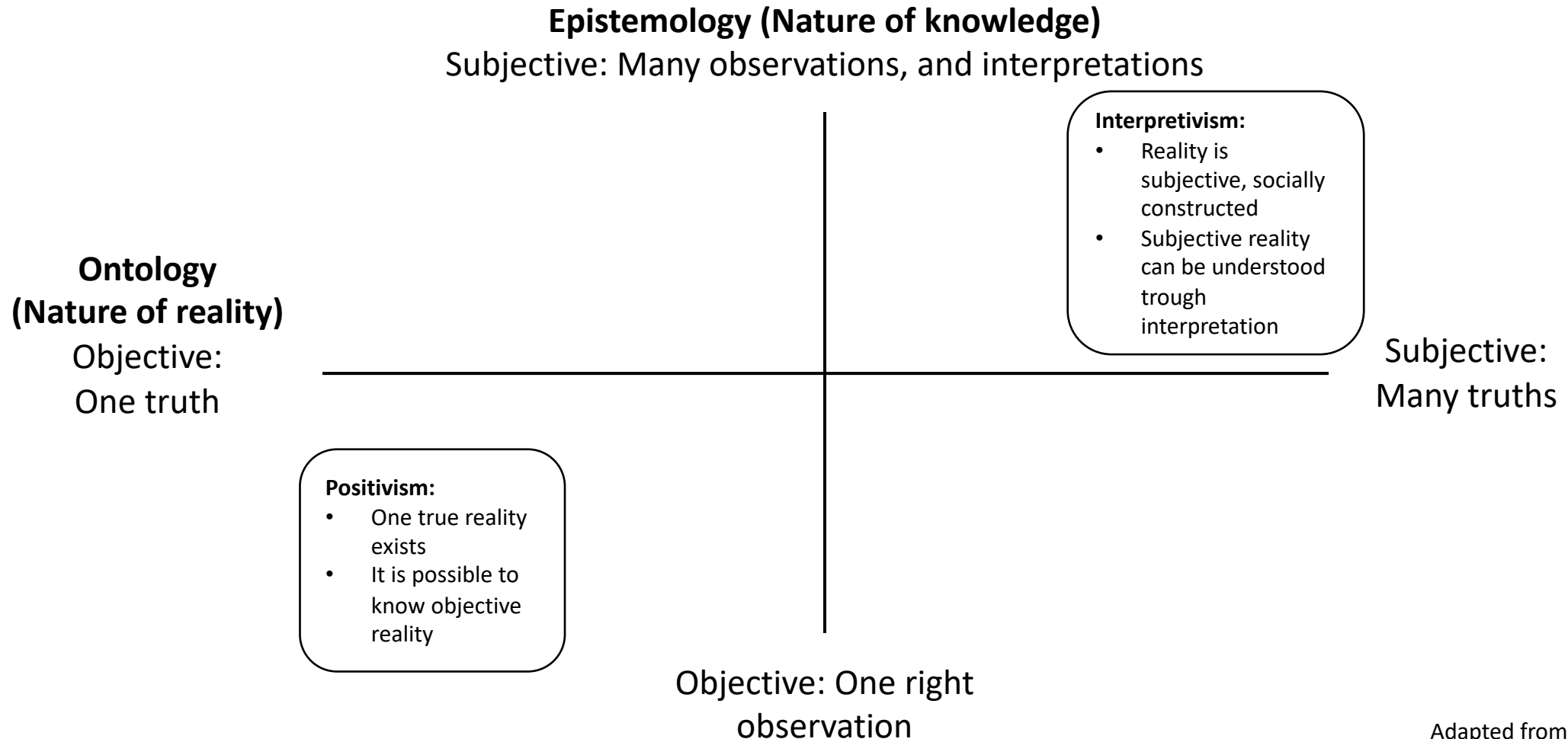
**Positivism:**

- One true reality exists
- It is possible to know objective reality

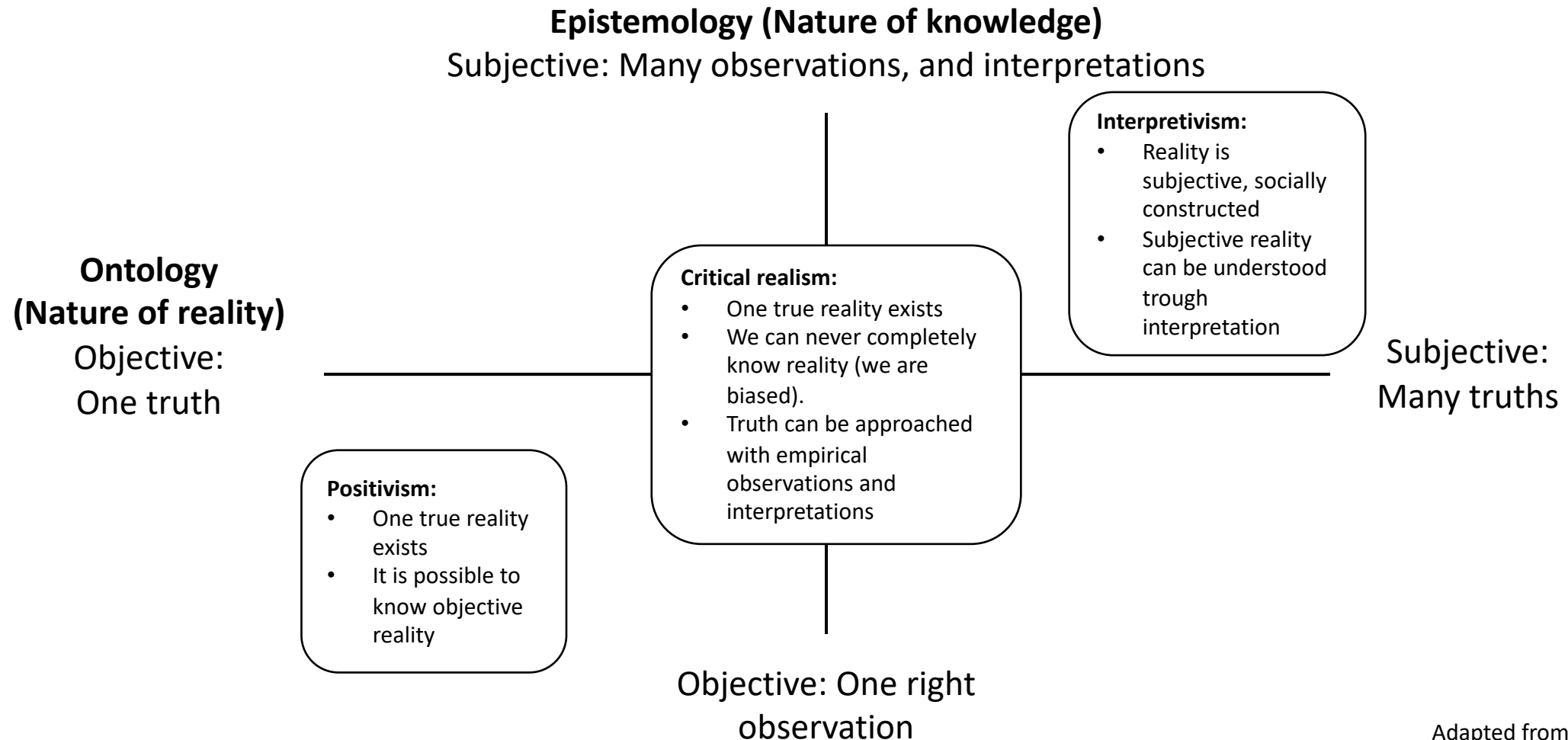
Objective: One right  
observation



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## Epistemology (Nature of knowledge)

Subjective: Many observations, and interpretations

**Ontology  
(Nature of reality)**  
Objective:  
One truth

This is the area which  
people  
Usually perceive as  
"academic"

### Positivism:

- One true reality exists
- It is possible to know objective reality

### Critical realism:

- One true reality exists
- We can never completely know reality (we are biased).
- Truth can be approached with empirical observations and interpretations

Objective: One right observation

### Interpretivism:

- Reality is subjective, socially constructed
- Subjective reality can be understood through interpretation

Subjective:  
Many truths

This is where design research falls into – and it can very academic too!

# RIGOROUSNESS MAKES YOUR RESEARCH ACADEMIC!

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**THE CHALLENGE: HOW TO MAINTAIN  
RIGOROUSNESS WHILE STILL BEING SENSITIVE  
TO CREATIVITY AND NEW IDEAS**

# **YOUR TASK**

# **THE TASK FOR TODAY**

**Steps 3, 4 (and 5) of the video (2:31-5:00)**





# **ABOUT MIRO**

**Miro is a 3<sup>rd</sup> party platform that is hosted outside Aalto.**

**If you feel that you do not want to work with Miro, you can ask a PDF copy of the board.**

**I am personally happily using Miro. 😊**

**LET'S PROCEED. YOU WILL FIND YOUR TEAM'S  
WORKING AREA IN THE BOARD.**

**WORKING, REMEMBER TO HAVE 10 MIN BREAK**

# LET'S TALK ABOUT THE TASK

## Let's discuss

- Something confusing?
- Something surprising?
- Something that forced you to unlearn something?

**NOW LET'S ADD A BIT OF THEORETICAL  
COMPLEXITY.**

# QUALITATIVE ANALYSIS THEORIZED: THE GIOIA METHOD

- Originates from the need to produce **reliable** results and to be **convincing** in the light of “**traditional**” scholars, while doing research in open-ended and creative way
- In short: How to exit the realm of “just telling beautiful stories”

## Organizational Research Methods

<http://orm.sagepub.com/>

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**Seeking Qualitative Rigor in Inductive Research: Notes on the Gioia Methodology**  
Dennis A. Gioia, Kevin G. Corley and Aimee L. Hamilton  
*Organizational Research Methods* 2013 16: 15 originally published online 24 July 2012  
DOI: 10.1177/1094428112452151

The online version of this article can be found at:  
<http://orm.sagepub.com/content/16/1/15>

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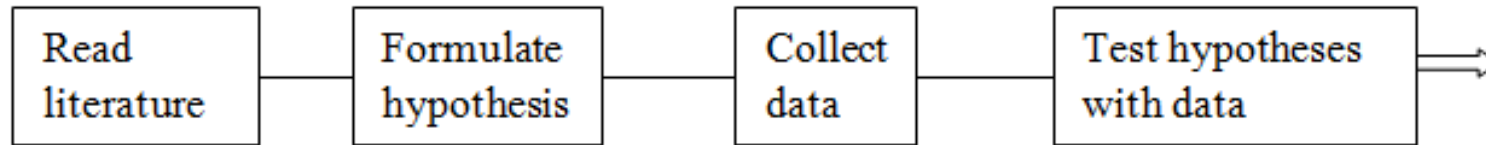
>> [Version of Record](#) - Feb 8, 2013

[OnlineFirst Version of Record](#) - Jul 24, 2012

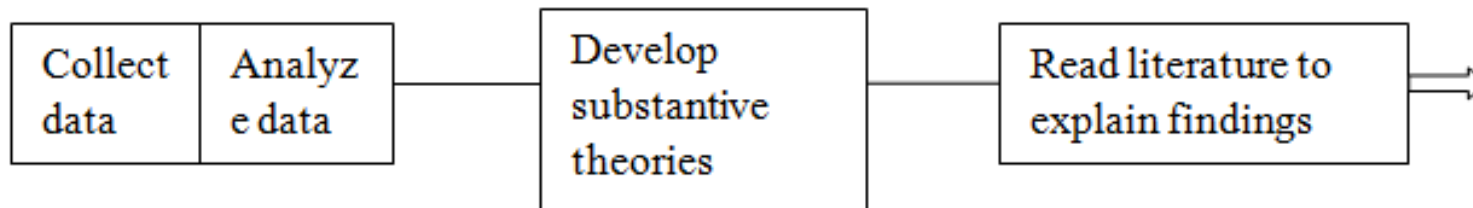
[What is This?](#)

# BACKGROUND IN GROUNDED THEORY

## Traditional



## Grounded theory



# FUNDAMENTALS IN GIOIA METHOD

1. The critical role of data and informants
2. Balancing between “informant’s view” and “researcher’s view”
3. Maintaining the “30,000ft view” to your data with visualization
4. Delicate relationship with the literature



# 1. THE ROLE OF DATA, ROLE OF INFORMANTS

- Give extraordinary voice to informants, who are treated as knowledgeable agents (you, the researcher, are glorified reporter!)
- Preserve flexibility to adjust interview protocol based on informant responses
- “Backtrack” to prior informants to ask questions that arise from subsequent

## **2. INFORMANT VIEW VS RESEARCH VIEW AND THE LINK BETWEEN THEM**

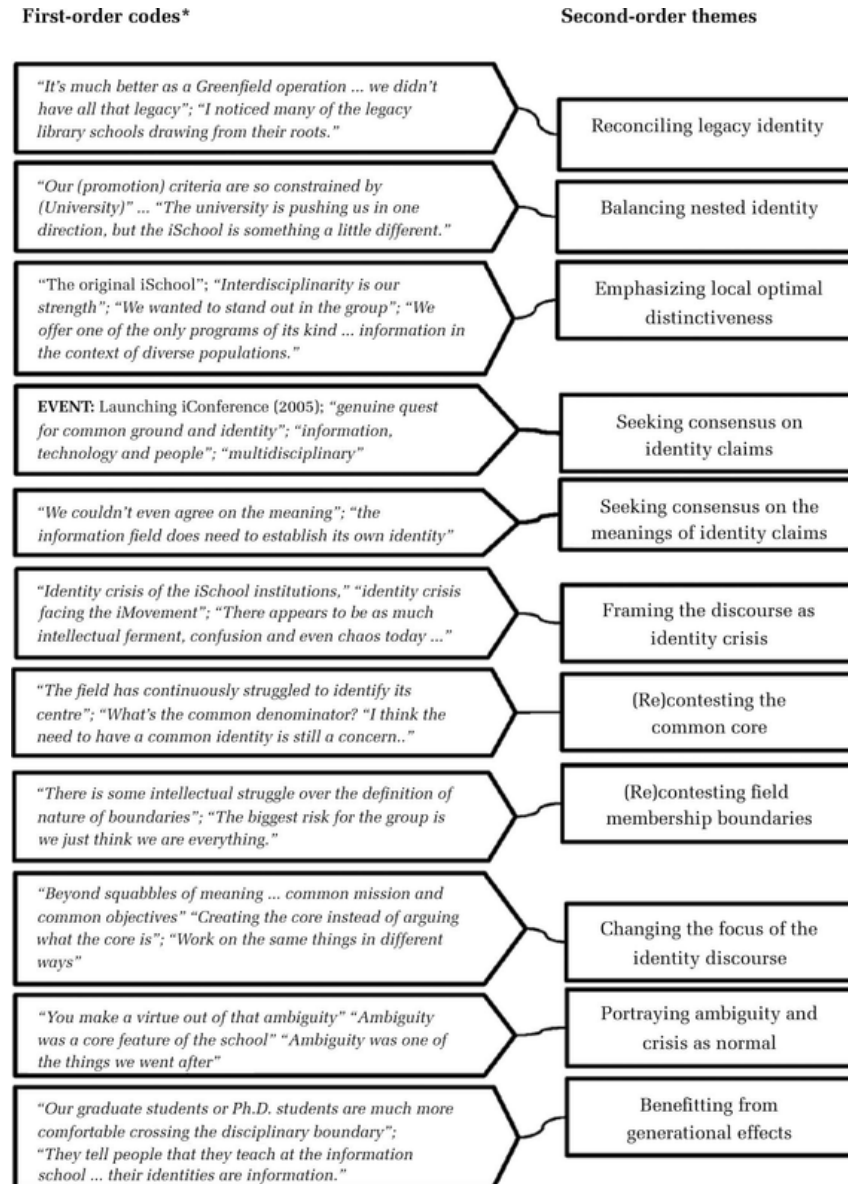
When analyzing your data

1. In 1<sup>st</sup> order data coding (open coding), maintain the integrity of informant-centric language
2. Then, organize 1st-order codes into 2nd-order (researcher-language) themes (identifying topics/themes; axial coding)
3. Then, distill 2nd-order themes into overarching theoretical dimensions (selective coding)
4. Iterate

**LET'S LOOK AT YOUR EXAMPLES!**

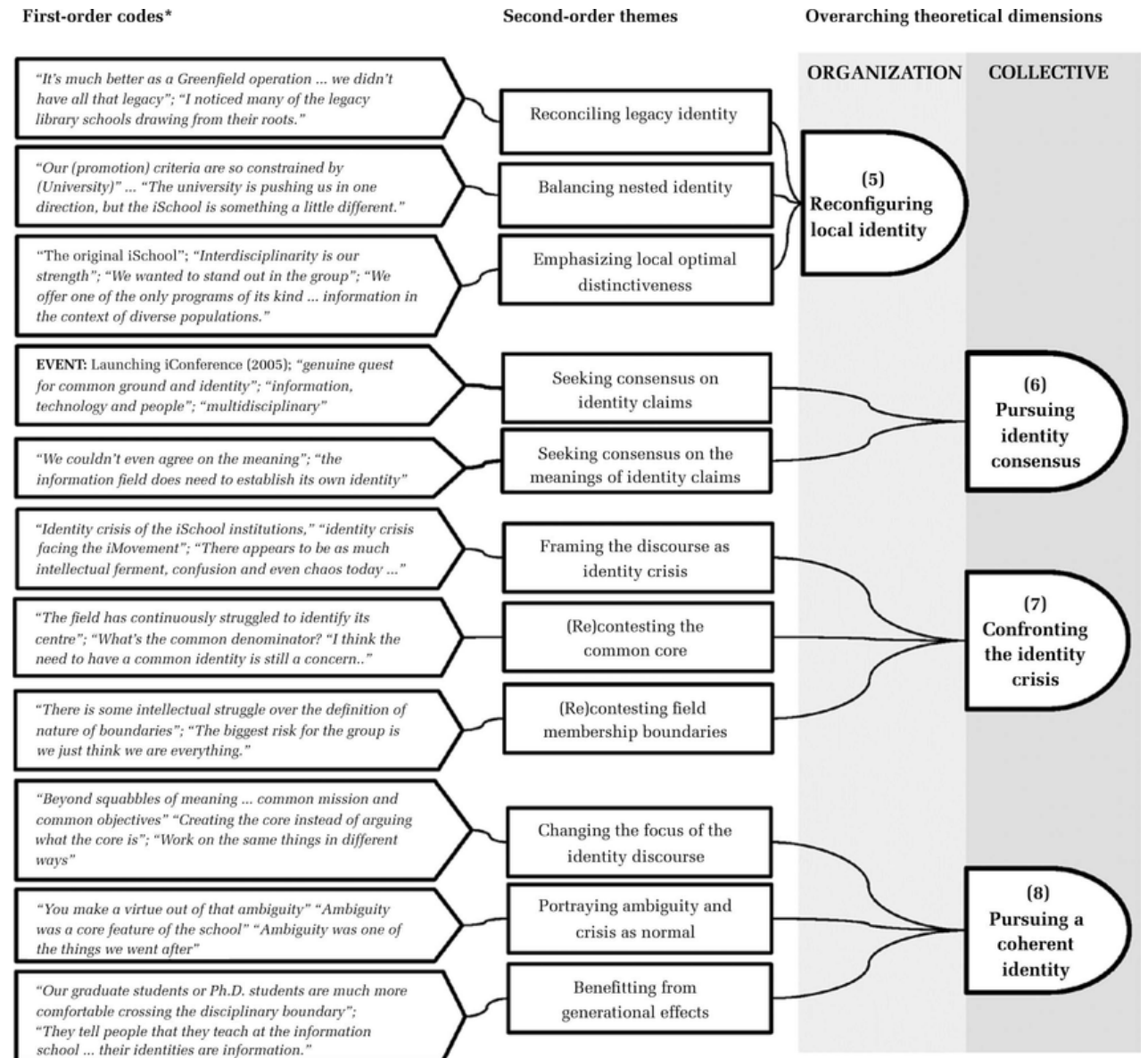
# 3. IMPORTANCE OF VISUAL DATA STRUCTURE

- Collect the results of your analysis to a visualization. It provides you the “30000ft view” to your data

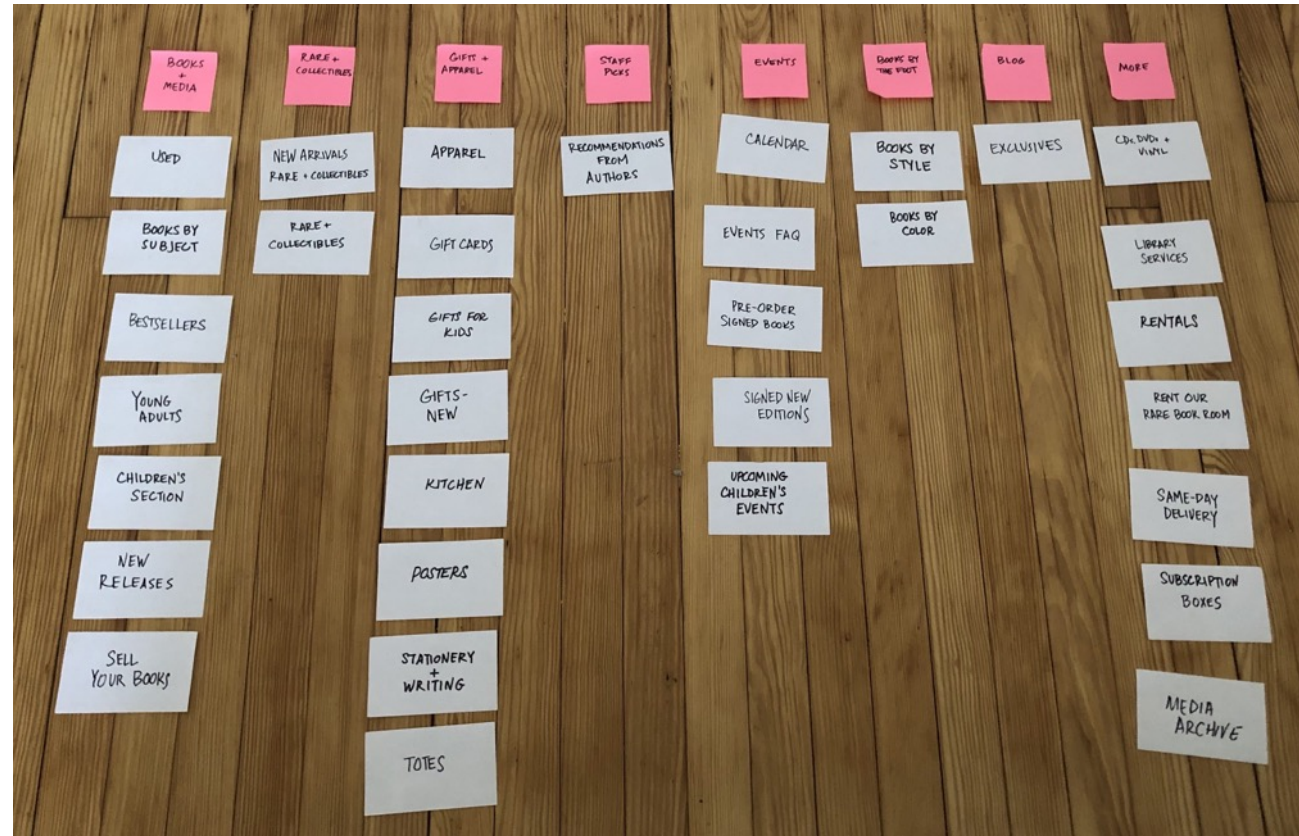


# 3. IMPORTANCE OF VISUAL DATA STRUCTURE

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# BTW, FOR ME THIS SOUNDS LIKE SOME KIND OF CARD SORTING?



## **4. DELICATE RELATIONSHIP WITH THE LITERATURE**

**It is a delicate balance: you must know your theory in order to focus on relevant matters, and not reinvent everything...**

**... but at the same time you must emphasize the informants own views and not force the data into a pre-defined structure.**

*"If we had designed our interview protocol around existing theory and terminology, we would have missed a key aspect of their sensemaking by imposing our preordained understandings on their experience."*

*(Gioia et al, 2012)*

# **THE PROCESS, SUMMARIZED**



# SUMMARY

- Designer's perspective to research and academic rigorousness are not in a battle - you just have to know what you are doing
- The challenge: how to maintain rigorousness while still being sensitive to creativity and new ideas
- Gioia method offers one way to do this in practice

**Q&A**

# MORE INFORMATION

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Dept. of Management Studies (IDBM)