

# HUDK 4051: LEARNING ANALYTICS PROCESS & THEORY

1/18/17 9:23 AM

# Overall goal

To investigate what the “Data Age” means for learning.

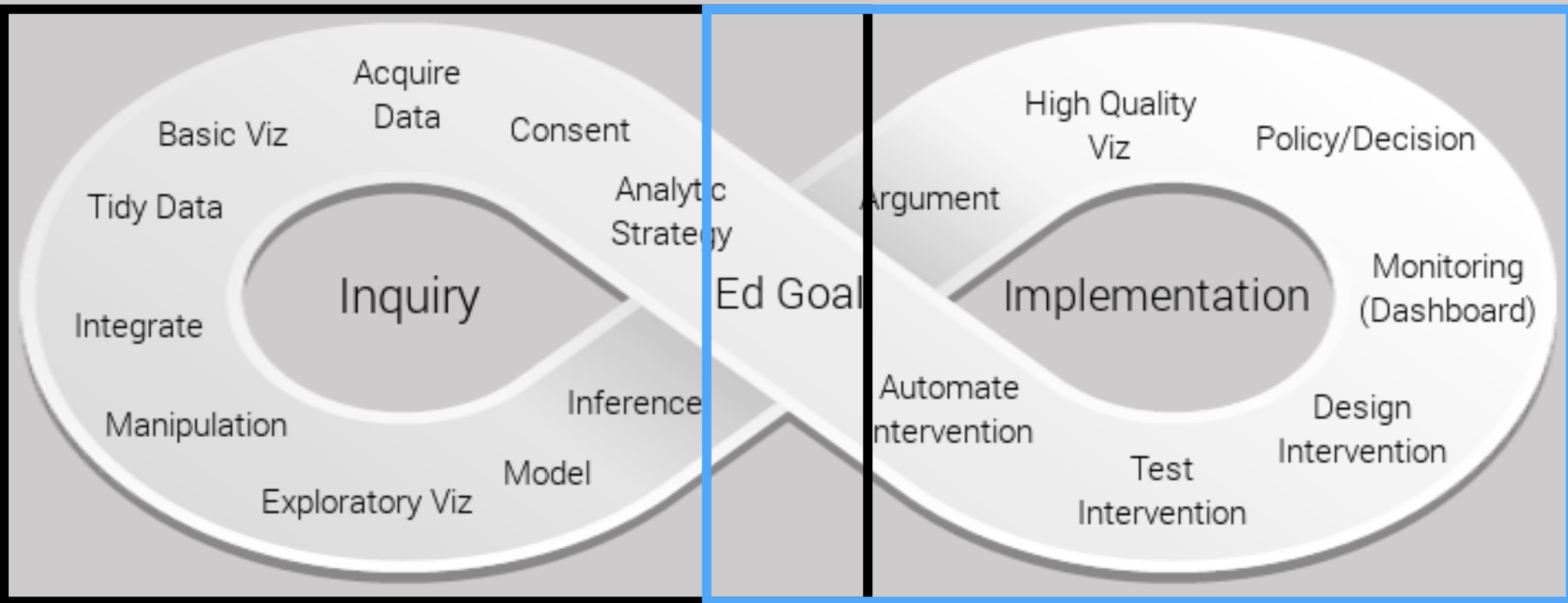
# Course Goals

Short Term		Long Term	
<b><i>Content</i></b>	<b><i>Skills</i></b>	<b><i>Abstractions</i></b>	<b><i>Habits</i></b>
remember..., understand...	demonstrate...	synthesize..., argue...	organize..., implement...
Conceptual basis of methods, use cases	R, git, application of methods	Evaluate broader implications, have opinions, methods schema	Workflow, documentation, JIT learning

# Ed Data Science Cycle

HUDK4050

HUDK4051



# Syllabus

<https://github.com/la-process-and-theory/syllabus>



# Units

- Some old friends: Prediction & SNA
- Natural Language Processing
- Neural Networks
- Closing the Loop

# What is the work?

- Attend class
- Weekly readings
- Maintain documentation of work (Github, R Markdown, Zotero)
- In person meeting with instructor
- 6 assignments
- Group presentation
- Mid-semester exam
- Record a tutorial session
  - Sign Up (on syllabus)
  - Tuesday
  - Bring some news
  - Discuss reading
  - Available on Soundcloud







# Assessment

***How to assess a course that is all about how difficult it is to measure learning?***

- Participation
- Organization
- Content improvement between mid-term and assignments 5 & 6



# Tools

- Git/Github  
  - R/RStudio  
  - Twitter 
  - Zotero 
- Tools that are worth learning in & of themselves
  - Tools that we can easily extract data from
  - Tools that you can use unrestricted in the future

# Entrance Survey

<http://bit.ly/2k0WVhs>

# In the news

**Slate**

## The Best Way to Protect Students' Personal Data

Teachers need to be the first line of defense.

**BBC**

Chinese billionaire offers biggest education prize



## States Need to Embrace Data-Driven Education

*Measuring a student's academic progress with valid, reliable data should go hand-in-hand with providing that child an education.*

**EDUCATION WEEK**

## Key Federal Studies Face Hazy Future Under Trump

TECH

## Education Department launches online developer hub

**fed scoop**



**HOMEROOM**  
THE OFFICIAL BLOG OF THE U.S. DEPARTMENT OF EDUCATION

More Transparency in Higher Education Will Help Improve Student Outcomes

Expanding Researcher Access to Student Aid Data

Fired IT worker changed password, wants \$200K to fix it, college says

**U.S. News** & WORLD REPORT

U.S. News Data: Graduation From Online MBA Programs

Had out which programs have the highest three-year graduation rates and where students finish the fastest.

## Mississippi sues Google over handling of student data



**UNIVERSITY HERALD**

## Little Data And Its Impact In Education

**USA TODAY**

**hindustan times**

ASER

Maharashtra teacher questions education report data, methodology

Grassroots Campaigns Are Raising Money For Girls To See *Hidden*

*Figures*

**REFINERY29**

<http://bit.ly/2jjYU3T>

[https://github.com/la-  
process-and-theory/  
class1-activity](https://github.com/la-process-and-theory/class1-activity)