

HUDK 4051: LEARNING ANALYTICS PROCESS & THEORY

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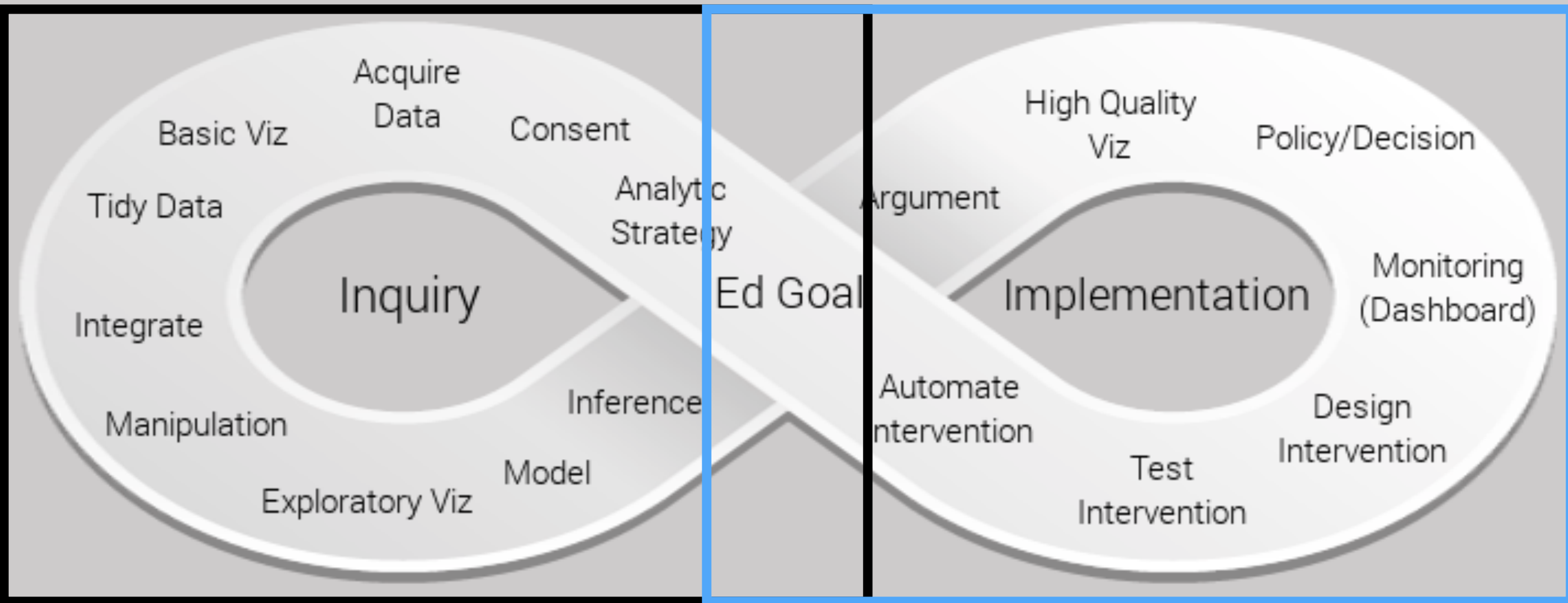
Course Goals

Short Term		Long Term	
<i>Content</i>	<i>Skills</i>	<i>Abstractions</i>	<i>Habits</i>
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
- Interactive Visualization
- Recommender systems

What is the work?

- Attend class
- In person meeting with instructor (sign up)
- Complete 8 Units
 - Readings/Videos
 - Assignment
- Record a podcast
 - Assigned
 - Tuesday
 - Bring some news
 - Discuss a topic
 - Available on Bandcamp/Github

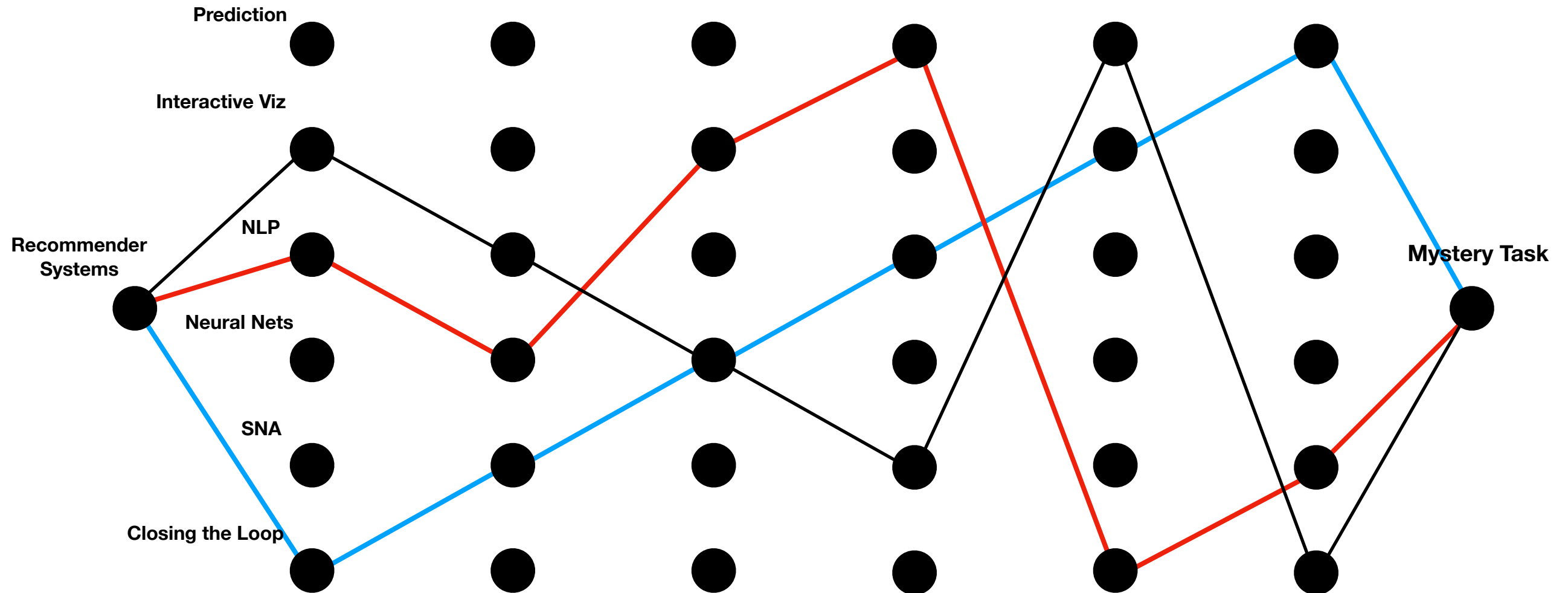
Format

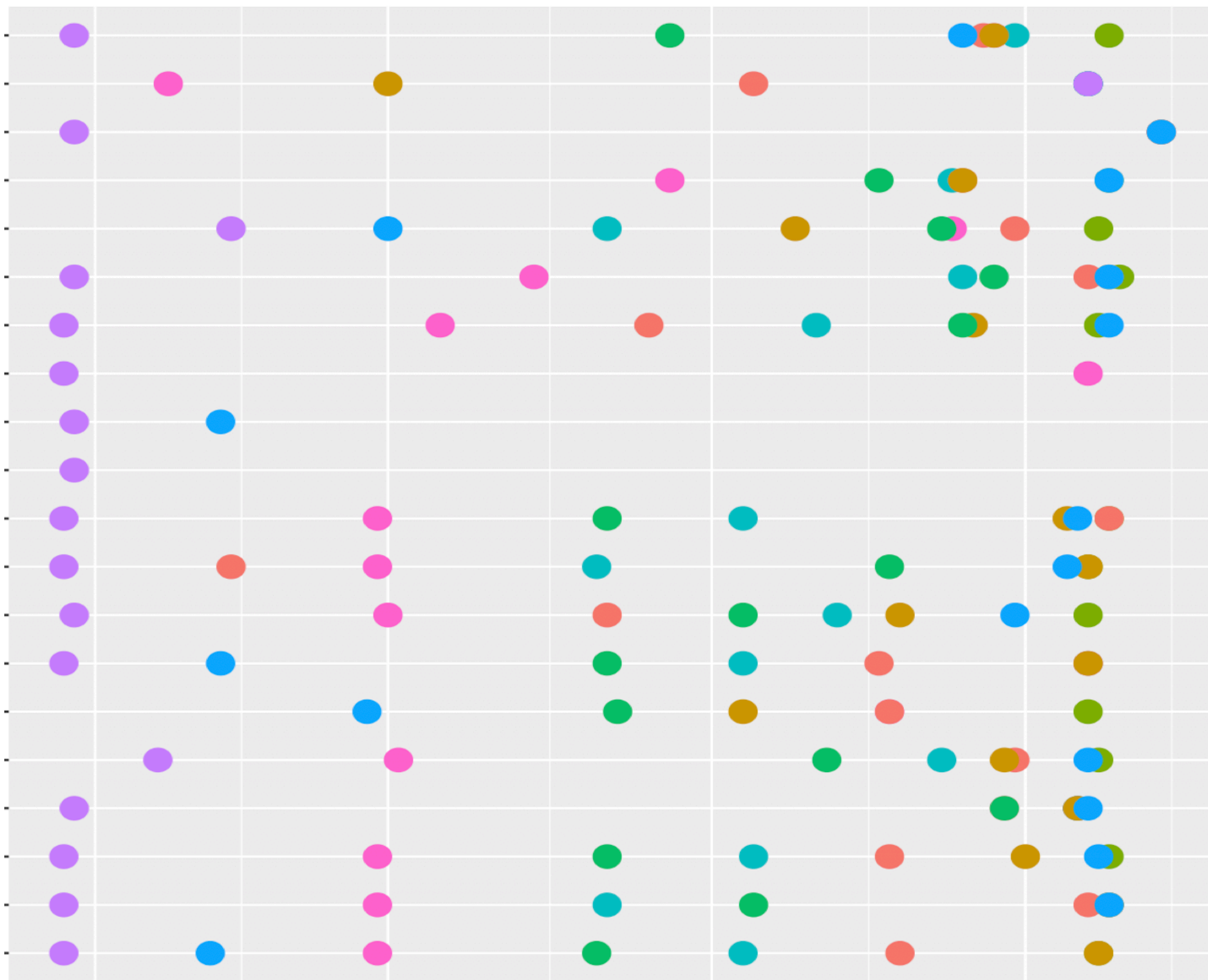
- Check syllabus for weekly format
- Tutorial: In class work on unit or activity (Wednesday)
- Podcast: Either planning or recording (Monday)

Units

- Disaggregated: You do them in any order that takes your fancy
- BUT there is no choice in the first and last units
- Complete one unit every \sim two weeks

Units





- interactive-visualization
- loop-closing
- mystery-unit
- natural-language-processing
- neural-networks
- prediction
- recommender-systems
- social-network-analysis

Why?

- Content isn't necessary cumulative
- Learning is more effective if you can follow your own interest
- Students are better arbiters of what they need to know than instructor
- Promotes self-motivated learning
- More time getting instructor feedback
- Get to test the tool you build in unit 1

If you did not take HUDK4050

- Must see me at the end of class

If you did take HUDK4050

- Assignments are more difficult in HUDK4051
- But you will get more assistance

The Daily Dot

**Facebook is helping husbands
'brainwash' their wives with
targeted ads**

SLATE

Netflix, *You*, and the Hits No One Knows Are Hits

Immediate to dos:

- Take a look at Recommender Systems
 - Issues tab
 - Additional material
- Survey
- Sign up for podcast

Questions?

- Office Hours

To Dos

Unit Survey

<http://bit.ly/hudk4051survey1>