Visualizing Student Research through a Multi-Conditional Branching "Choose Your Own Adventure"-Style Tutorial

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Choose Your Own Research Adventure

You are just beginning your research on Cordaceae, a subject you know nothing about. Where do you begin?

- Google
- Your course syllabus
- UBC Library’s Summon Search

Next
Data

• 42 Nodes/Questions
• 116 Links/Responses
• 59 Branching rules
• 93 Respondents

Constraints

• Final product uses Tableau
• Cross-tabulated data with minimal transformation requested
Questions to answer

- Student use of tutorial content
- Student opinion on tutorial format
- Reach and retention rate
- Use of tutorial by different classes of students (grad, undergrad, public)
- Understanding of student research methods
Questions to answer

✓ Student use of tutorial content
✓ Student opinion on tutorial format
✓ Reach and retention rate
✓ Use of tutorial by different classes of students (grad, undergrad, public)
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Questions to answer

✔ Student use of tutorial content
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✔ Use of tutorial by different classes of students (grad, undergrad, public)
✔ Understanding of student research methods
?

Student opinion on tutorial format
Choose Your Own Research Adventure

Completion Rate 49.2%

# Began 132
# Completed 65

Overview
Students' First Instincts
Awareness of Google
Use of Search Results
Use of Wikipedia

Filter by Course ID
- (All)
- FNH325
- FOOD511
- HUNU530
- LFS100
- LFS150
- LFS250
- LFS350
- LoGuide
- SOIL200

Click bar to filter by student level
Undergrad
Grad
Public

I loved this! Please make more tutorials like it!
I loved it, but this one adventure is all I'd be interested in
I guess I'd rather do the tutorial stuff in this format than just reading pages in Connect
I don't really have strong feelings one way or the other
I hated this, but I really don't think there's a tutorial format I would have liked better.
I hated this. I did not like this style of tutorial at all.

Click a bar above to filter results by student response

http://tinyurl.com/lfscyoamf
What

- Tabular data
- Text Survey

Why

- Discover trends
- Identify and compare patterns of use
How

- Overview first, details on demand
- Multiple linked views
- Linked navigation
- Interactive - text displays on hover
- Interactive - path highlighted on click
- Reduce - Filter by student level and response
How

Sankey Diagram

● Use encoded as line width
● Flows as paths of students
● Categorical color
● Compare with filters by student level and response
How

Node and Link Diagram
- Questions as nodes
- Responses as links
- Categorical color
- Enclosure as navigational aid

Stacked Bar Chart
- Count of students as length
- Categorical color
How

Derived calculations

● Aggregate by student type
● Count of students
● Percentage completion rate

![Completion Rate]

<table>
<thead>
<tr>
<th>Completion Rate</th>
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