

Walking Through the Research Process: Guzdial Chart Handout

HCC Seminar

10/24/18

Getting to Know Other HCC Students (5 min)

Directions: In your small group, go around and introduce yourself! Starting with the 3rd year, share your name and answer to the following question.

Question: What's your favorite halloween costume you've worn?

Guzdial Chart: Defining a Proposal in One Table¹ (5 min)

What is a Guzdial Chart? According to Mark Guzdial, a professor in IC some of you probably know, a Guzdial Chart is a table that presents an entire research proposal in a single figure. While Guzdial believes this chart should really be called a Blumenfeld Chart, the chart has been widely used by HCC students and alumni to distill what a research project is about and what resources it requires.

What's in the Chart?

One chart should represent an entire research project. *Rows* are studies and *columns* are questions to guide the research process, normally there are 5 columns. Some research projects have multiple studies within them. Thus, each row in a Guzdial chart represents one study. Likewise, each cell in the row should answer important questions about a proposed research question. The following questions, mostly taken from Guzdial's blog on this on this topic, should be answered in a filled out chart:

1. **Research Questions:** What are you trying to achieve? What's the research question?
2. **Participants and Data:** Who are you studying? What data are you going to collect?
3. **Instruments and Methods:** How much data are you going to collect? How many participants? What measures are you going to use? How often are you going to use these measures with these participants?
4. **Data Analysis:** How are you going to analyze these data?
5. **Hypothesis:** What do you expect to find? What's your hypothesis for what's going to happen?

Warm-up Discussion

- What is the value of presenting a research project in one table?

Guzdial Chart Activity (20 min)

Let's fill out a Guzdial chart! You can work alone or with others. Most important, **ask your group for their thoughts along the way!**

¹ This page is constructed with help from Mark Guzdial's blog post: <https://computinged.wordpress.com/2016/10/03/defining-a-proposal-in-one-table-how-to-write-a-guzdial-chart/>

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Step Zero

Let's start with a recent project! Pick a project proposal that you're working on now or have finished recently to **fill in the first blank**.

Step One: Research Questions

Now let's hash out your research questions. If your study has more than one research question, feel free to add them to each row now. Your research question should answer the following questions: What are you trying to achieve? What's the research question?

Step Two: Participants and Data

Now that you know what question you're investigating, you need need to determine what means you will use to answer it and who you need to participate. Answer the following questions in the chart: Who are you studying? What data are you going to collect?

Step Three: Instruments and Methods

Now for the methodological details and the technical tools you'll need to answer this research questions. The next cell in your chart should answer the following questions: How much data are you going to collect? How many participants? What measures are you going to use? How often are you going to use these measures with these participants?

Step Four: Data Analysis

Now that you have data collected, what do you do with it? This cell should tell us how you plan to analyze the data! If you're not sure how to best analyze the data, feel free to ask people in your group for their input.

Step Five: Hypothesis

Last, but not least, after all of this work... What do you expect to find? What's your hypothesis for what's going to happen?

Wash, Rinse, Repeat (if necessary)

Maybe your research project has more than one study? Fill out another row in this chart (and more if needed).

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Post-Guzdial Chart Discussion

Share and talk about your Guzdial Chart in your group:

- What helps you in the process of filling in the chart?
- What constrains you?
- How do others fill in their Guzdial Charts?

Resources

- Mark Guzdial's original blogs on the topic (they're pretty much the same content):
 - <https://computinged.wordpress.com/2016/10/03/defining-a-proposal-in-one-table-how-to-write-a-guzdial-chart/>
 - <https://medium.com/@markguzdial/defining-a-proposal-in-one-table-how-to-write-a-blumenfeld-chart-927a4dcf5dcb>

Sharing Tips + Announcements + Q&A

Sharing Tips: Learn something in seminar today? Now is a great time to share out.

Questions & Announcements

If you don't get a chance to share during the meeting, please email the HCC listserv and/or Marissa and Hayley to follow up.

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Guzdial Chart Worksheet

Research Project: _____

Research Questions	Sampling & Instruments	Participants	Data Analysis	Hypothesis
RQ1:				
RQ2:				

Research Questions	Sampling & Instruments	Participants	Data Analysis	Hypothesis
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RQ3:				
RQ4:				