From the Past to Current Visualization Tools

In recognition of February being [Black History Month](https://en.wikipedia.org/wiki/Black_History_Month), and its [origins](https://asalh.org/about-us/origins-of-black-history-month/), extra points (up to 25 points) can be earned by examining the work W. E. B. Du Bois’s Data Portraits: Visualizing Black America.

**About the book:**

The colorful charts, graphs, and maps presented at the 1900 Paris Exposition by famed sociologist and black rights activist W. E. B. Du Bois offered a view into the lives of black Americans, conveying a literal and figurative representation of "the color line." From advances in education to the lingering effects of slavery, these prophetic infographics --beautiful in design and powerful in content--make visible a wide spectrum of black experience. W. E. B. Du Bois's Data Portraits collects the complete set of graphics in full color for the first time, making their insights and innovations available to a contemporary imagination. As Maria Popova wrote, these data portraits shaped how "Du Bois himself thought about sociology, informing the ideas with which he set the world ablaze three years later in The Souls of Black Folk."

**The assignment**

There are 63 Plates (visualizations) included in the book, divided into two parts:

Part I: The Georgia Negro: A Social Study

Part II: A Series of Statistical Charts Illustrating the Condition of the Descendants of Former African Slaves Now Resident in the United States of America.

Choose one (1) of the color plates from Part II to update using current data. This means you will locate and ***acquire*** the similar data depicted in the plate that you choose to create an updated version of the visualization, ***parse*** and ***mine*** the data you find, ***filter***out what you need, to ***represent*** the updated visualization. You are strongly encouraged to share your first representation with a friend or colleague to get ***feedback*** on how the visualization can be refined. Take the comments as constructive and ***refine*** your initial visualization. Submit your final revision. You must document and show your process for updating the Du Bois’s Data Portrait.

One way to document your work is to use the Data Visualization Activity Worksheets for each stage of the data visualization process:

Acquire – locating data

Parse – breaking the data down into its most basic part

Mine – identifying a question to be answered by the data; applying basic statistical methods to uncover trends and subtle insights about the data

Filter – filter out what you need to address your question

Represent – Create a visualization of the data you acquired, parsed, mined and filtered.

Critique – get some feedback. Share your visualization with a classmate, roommate, colleague and ask for suggestions on how to improve it. Provide documentation of the critique.

Refine – make the improvements, revised the visualization

Each worksheet is available online. When you complete and submit the worksheet, a copy of the worksheet will be emailed to you. You will include a PDF of the completed worksheet in your submission.

What to turn in:

* Remember, data visualization is about storytelling. Write a one-page summary of your work. What story are you telling? What insights did you uncover? How has the visualization changed when comparing your updated visualization with Du Bois’s original visualization?
* If you use the Data Visualization Activity Worksheets, include them in your submission.
* Include one page that consists of a screenshot of the visualization you have updated with current data (make sure you cite it)
* Include one page that contains a screenshot of your updated visualization. Include a figure capture that briefly describes your visualization. Include what visualization tool/application was used to create the new visualization.

**How to submit your work**

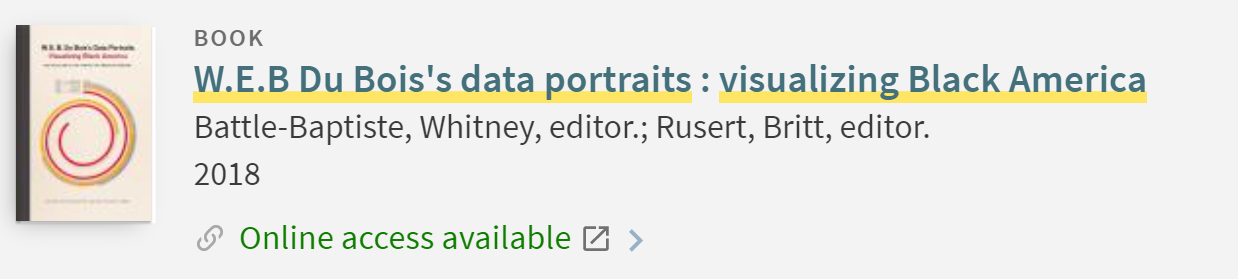
* Combine all of your files into one zip file using the following naming convention:

**LastnameFirstInitial\_CGT270S22\_DEI-InDataVis.zip**

* Upload zip file to Brightspace

**Resources**

The book is available via the Purdue Online Library at <https://www.lib.purdue.edu/>



Du Bois, W. E. B., Whitney Battle-Baptiste, and Britt Rusert. W.E.B Du Bois's Data Portraits: Visualizing Black America. First ed. 2018.

**Due: March 31, 2022 by 11:59 PM EST**

No extensions. Late work will not be graded. Only documents submitted in Brightspace will be graded.

**Points to be earned**

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Rubric | Pts Range | Max Points |
| Summary |  | | 5 |
| Summary includes insights and comparison of updated visualization to the original, updated visualization with screen shot of original color palate; rationale for visualization chart type and visualization tool. | No summary  Missing one or more elements of the summary  All elements of summary present | 0  1 - 4  5 |  |
| Data Visualization Process |  | | 6 |
| Documented data visualization process with activity worksheets: Acquire, Parse, Mine, Filter & Represent, Critique, Refine  Worksheets (1-pt each) *(You must use version 4.0; links provided):*  **Acquire**  <https://purdue.ca1.qualtrics.com/jfe/form/SV_1RNSj6fauX7VL26>  **Parse**  <https://purdue.ca1.qualtrics.com/jfe/form/SV_6Ft2ctK9DbZG1Yq>  **Mine**  <https://purdue.ca1.qualtrics.com/jfe/form/SV_4MFAg8Zjn9mo6Ka>  **Filter & Represent**  <https://purdue.ca1.qualtrics.com/jfe/form/SV_5A6owTMR6XZYdKu>  **Critique**  <https://purdue.ca1.qualtrics.com/jfe/form/SV_6s1tigYg640mMce>  **Refine**  <https://purdue.ca1.qualtrics.com/jfe/form/SV_3woWKSanm7o0HvU> | No worksheets OR wrong version of worksheets  Acquire worksheet  Parse worksheet  Mine worksheet  Filter & Represent worksheet  Critique Worksheet  Refine Worksheet | 0  1  1  1  1  1  1 |  |
| Updated Visualization |  | | 14 |
| * one-page screen shot of original Du Bois’s color plate, * screenshot of updated visualization * with figure caption that includes description, tool used to create updated visualization listed.   Follows data visualization check list and best practices. | No updated visualization  Missing Updated Visualization bulleted items  Evidence of bullet points and data visualization best practices. | 0  1-6  14 |  |
| **Total Possible Points** | | **25** |  |