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CMPT 1531: Designing data visualizations on Google

EFFECTIVE DATE

March 2021

DEPARTMENT

Computers - City Centre

DESCRIPTION

During the COVID-19 pandemic, the popularity of data visualizations have surged. Data visualizations have played a significant role in communicating important information in a simple yet convincing fashion. Data visualization is a powerful technique to communicate meaning in today's digital content ecosystem where increased smartphone usage is leading to audiences consuming information more quickly. In this environment, text alone is no longer as effective and it is increasingly necessary to capture the viewer's attention with visual content to deliver meaning. Data visualization is the perfect method to do this as that makes data visually appealing, interactive, and easily understandable. They are the "hook" that makes viewers stop, take notice, and invites them to engage more substantively with information. In this instructor-led training, you will learn about the design principles for effective communication through data visualization and you will utilize datasets for designing charts through Google tools. You will learn through live demonstrations while interacting with a subject matter expert.

CREDITS

0.0

YEAR OF STUDY

General Interest

PREREQUISITES

Participants are required to have Google Drive accounts

COREQUISITES

None

COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Find and import data into Google Drive
- Design five main chart types using Google Drive (bar, line, map, scatterplot, pie)
- Export charts to accessible formats through shareable link and embed code

- Embed data visualization onto websites
- Optimize designs for mobile viewing

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 0

Lab: 3

Other: 0

INSTRUCTIONAL STRATEGIES

GRADING SYSTEM

Satisfactory/Unsatisfactory

PASSING GRADE

'S' based on minimum 80% attendance

EVALUATION PLAN

None

COURSE TOPICS

- Data integration and structure with Google Drive
- Design principles for effective visualization
- Design principles for mobile and social sharing
- Use cases for interactive data visualizations

LEARNING RESOURCES

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.

- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

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