

Lecture 0

Introduction to DTS204TC

DTS204TC Data Visualisation



Key Module Info

Module name	Data Visualisation
Module code	DTS204TC
Credit value	2.5
Semester in which the module is taught	Block 2 of Semester 2, 2023 - 24
Pre-requisites needed for the module	None

Module Leader

- Yuxuan Zhao is a lecturer at School of AI and Advanced Computing (AIAC). I obtained my PhD from UoL and MSc from UCL. My research interests include Deep Learning, Computer Vision, Computer Graphics and Image & Video Processing etc.
- Email: yuxuan.zhao02@xjtlu.edu.cn
- Office: D-5008 TC Campus
- Office Hour: 3pm – 5pm Tuesday (TC Campus) & 1pm – 3pm Friday (SIP Campus) by appointment

Co-teacher

- Zhen Hua received her bachelor's and master's degrees in control science and engineering from the Harbin Institute of Technology, followed by a Ph.D. in system engineering co-trained by the China Academy of Aerospace Systems Science and Engineering and the University of Manchester.
- Email: Zhen.Hua@xjtlu.edu.cn
- Office telephone number: 89167600
- Room number and office hours: 1pm – 3pm Tuesday & 1pm – 3pm Thursday by appointment

TA

- Tong Chen: tong.chen19@student.xjtlu.edu.cn
- Xinyue Zhang: xinyue.zhang1802@student.xjtu.edu.cn

Delivery Schedule

- Lecture (Week 8 - 12)
 - Lecture D1: Mon. 1pm – 3pm; TC-FG-2001
 - Lecture D2: Tue. 1pm – 3pm; TC-FG-2001
- Lab (Week 8 - 13)
 - Wed. 11am – 12pm / Wed. 12pm – 13pm
- Seminar (Week 13)
 - Mon. 1pm – 3pm TC-FG-2001 (Guest Lecturer)

DTS204TC-Lecture-D1/1 TC-FG-2001 Week:8-12 Time:1PM - 2:50PM	DTS204TC-Seminar-D1/1 TC-FG-2001 Week:13 Time:1PM - 2:50PM	DTS204TC-Lecture-D2/1 TC-FG-2001 Week:8-12 Time:1PM - 2:50PM
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DTS204TC-Comp.Lab-D1/1 TC-D-2001 Week:8-13 Time:11AM - 11:50AM
DTS204TC-Comp.Lab-D1/2 TC-D-2001 Week:8-13 Time:12PM - 12:50PM

Module Overview

- Learning Outcomes:
 - A. Use data visualisation methods and techniques to analyse a given data set.
 - B. Use software tools to analyse a given data set.
 - C. Select appropriate analysis and visual encoding methods for a given data type.
 - D. Design an effective visualisation to highlight particular features of a given data set.
 - E. Critically evaluate the effectiveness of a given data visualisation.
 - F. Create visualizations using interactive web graphics programming in JavaScript, and D3.js.
 - G. Describe the fundamentals of 2-D and 3-D graphics.
- Programming Language: HTML, JavaScript

Assessment




Sequence	Method	Assessment Type	Learning outcomes assessed	% of Final Mark	Resit(Y/N/S) ³
001	Project	CW	ALL	100	Y

- Final Assessment
 - 2 Tasks: Task 1 60%, Task 2 40%
 - 100% individual work
 - **Deadline: 23:59, May 23rd, 2024 (Week 13, Thursday)**
 - Coursework must be submitted electronically through the module webpage on LMO. PLEASE DOULD CHECK YOUR SUBMISSION!!!

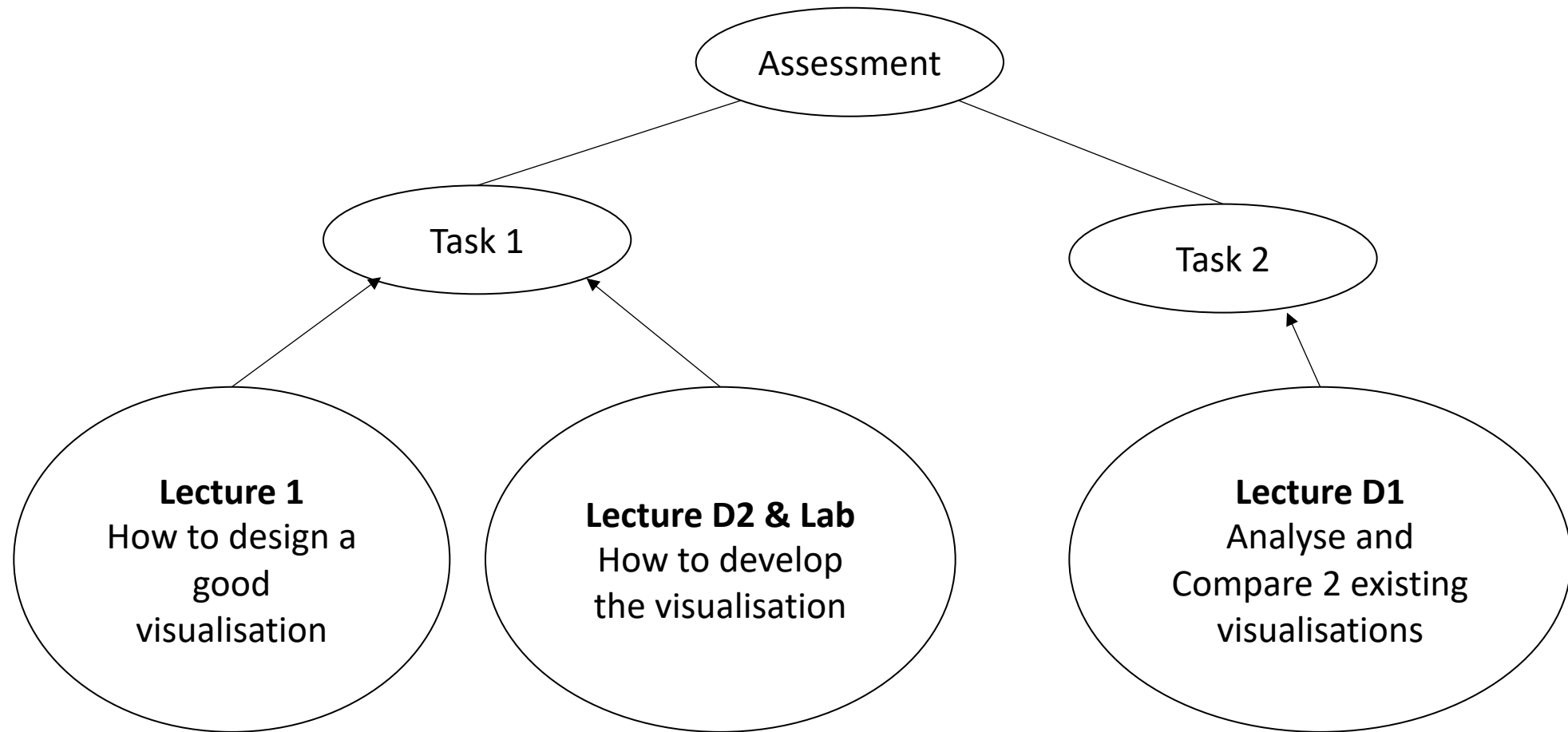
Lecture & Lab Content

- Lecture D1
 - The Fundamental and Theory of Data Visualization
- Lecture D2
 - Data visualization programming content: HTML, JS, D3.js
 - *Don't worry if you cannot find the relation between Lecture D1 and D2*
- Lab
 - Practice (Mainly based on Lecture D2)

Lecture, Lab and Assessment

- Lecture D1  *Task 1 & 2*
 - The Fundamentals and Related Concepts of Data Visualization
- Lecture D2  *Task 1*
 - Data visualization programming content: HTML, JS, D3.js
- Lab  *Task 1*
 - Practice

Lecture, Lab and Assessment



Support Materials

- Quiz (not related to your Grade)
- Feedback Session
- We will have a survey about these materials at the end of the semester.

If you have questions ...

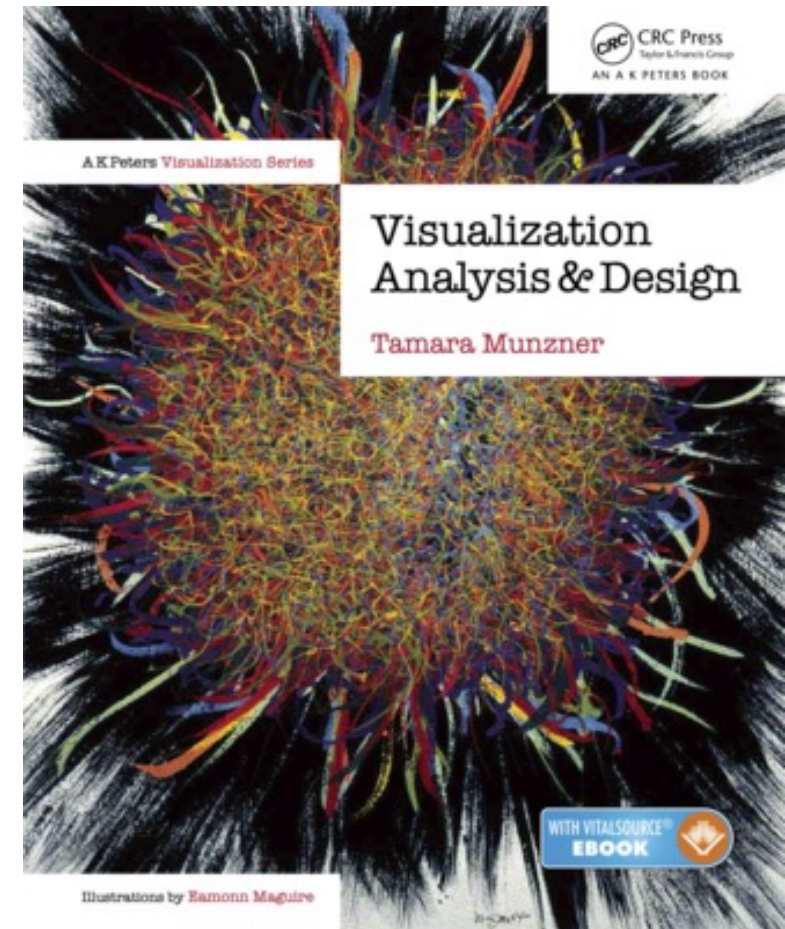
- Q&A
 - Lab
 - Office hour
 - Discussion board (LMO)
 - Seminar
 - Email

If you want to complain ...

- Suggestions and Complaints
 - We can make our DTS204TC better together
 - Recommended Way
 - After Class
 - Office Hour
 - Email
 - SSLC
 - MQ
 - Not Recommended Way
 - 纸条
 - WeChat

Textbook

- Tamara Munzner. *Visualization Analysis and Design*. A K Peters Visualization Series, CRC Press, 2014. ISBN: 9781498759717



More Info

- Attendance Rate is very important
- No Exam
- No Group Work
- Late Submission: University Rule