

MOME Open D3.js training schedule - Spring 2023

Date	Instructors	Topic	Softwarer
2023. 04. 21.	Intro	Present the teachers and what this course is about. Invite the students to introduce themselves: their background, position and what they want to get out of this course.	-
	Dufour Anne-Marie	Introduction to D3 visualizations (showcase existing D3 projects and projects that we will build throughout this course). Explain when and why we want to use D3 over other dataviz tools	-
	Minkó Mihály	The theory behind data visualization and going from data to dataviz	-
2023. 04. 22.	Dévai Nándor	Understanding the D3 ecosystem (HTML, CSS, JavaScript) and key JS concepts.	-
		Setting up a development environment for D3 projects, Downloading code files from the course Github repo, Loading the D3 library into a project.	VS Code
	Dufour Anne-Marie	Understanding and creating SVG elements. Exercise 1: Recreate a drawing in the browser with inline SVG elements. Encourage teams with complementary skillsets (designer + programmer i.e.) Manipulating the DOM: Selecting and Appending elements, modifying their attributes and styles. Exercise 2: Recreate the same SVG drawing, this time with D3. Working with data: Where to get data, Loading a dataset into a project, the data-binding pattern. Exercise 3: Create a simple bar chart. Using scales to translate data into visual attributes like length or color. Drawing axes. Exercise 4: Use scales to calculate the length of the bars in the bar chart and append axes. Outro, present homework for the week, answer questions.	VS Code Chrome / Firefox

2023. 04. 28.	Minkó Mihály	Chart types, from basic to advanced - From data to selecting a chart type.	-
	Dufour Anne-Marie	Present this week's project: A dashboard with simple charts. Introduction to D3's shape generators. Exercise 1: Adding a line chart to the dashboard.	VS Code Chrome / Firefox
2023. 04. 29.	Dufour Anne-Marie	Discuss homework, answer questions Intro: What we will learn today - continue simple dashboard Load data from API (dynamic data, Star Wars API, NASA, etc...) Shape generators vs layout generators Drawing arcs and calculating the angles of a pie chart Exercise 1 Layout generators for stacked bar charts and streamgraphs. Exercise 2 Adding interactivity and smooth transitions. Exercise 3 Explain homework and main steps.	VS Code Chrome / Firefox
	Dévai Nándor	Workshop: exercises from the morning and homework.	VS Code Chrome / Firefox
2023. 05. 05.	Minkó Mihály	Storytelling with data.	-
	Dufour Anne-Marie	Present this week's project: Animated distributions Binning data Exercise 1: Drawing a histogram	VS Code Chrome / Firefox
2023. 05. 06.	Dufour Anne-Marie	Discuss homework, answer questions Intro: What we will learn today Drawing different representations of data distributions with bins Exercise 1: Drawing a pyramid chart. Exercise 2: Turning a histogram into a violin plot. Filtering a visualization and using the enter().update().exit() pattern to control how data enter and exit a visualization.	VS Code Chrome / Firefox

		Explain homework: Drawing data points onto the violin plot. Using filters to animate how data enters and exits the chart. Outro, questions	
	Dévai Nándor	Publishing your work on github pages.	
		Workshop: exercises from the morning and homework.	VS Code Chrome / Firefox Github
2023. 05. 12.	Minkó Mihály	Storytelling with data.	-
	Dufour Anne-Marie	Introduce final project + make teams. Intro to hierarchical visualizations.	VS Code Chrome / Firefox
2023. 05. 13.	Dufour Anne-Marie	Discuss homework, answer questions. Building a circle pack, a tree chart and a treemap. Exercise: Break the group in three teams, each one builds one of those visualizations then take a few minutes to explain how they did it. The D3 force layout: the different forces and how they impact a network. Exercise: Playing with the different forces and generating a beeswarm chart.	VS Code Chrome / Firefox
	Dévai Nándor	Working in a collaborative environment Workshop: exercises from the morning and start working on collaborative project.	VS Code Chrome / Firefox
2023. 05. 19.	Minkó Mihály	Subject TBD	-
	Dufour Anne-Marie	Continue discussion on networks. Present examples, explain how to add links and make them interactive. Exercise: Network diagram	VS Code Chrome / Firefox

2023. 05. 20.	Dufour Anne-Marie	Discuss collaborative projects, answer questions Introduction to maps Exporting a D3 project to a vectorial design software. Exercise: Map Responsiveness in dataviz: tips and ideas	VS Code Chrome / Firefox Figma
			VS Code Chrome / Firefox
	Dévai Nándor	Testing projects for responsiveness Workshop: Make one of our projects responsive or work on the collaborative project.	VS Code Chrome / Firefox
2023. 05. 26.	Minkó Mihály	Subject TBD	-
	Dufour Anne-Marie	Accessibility considerations	VS Code Chrome / Firefox Hemingway app Color blindly extension
2023. 05. 27.	Dufour Anne-Marie	Combining D3 with React	VS Code Chrome / Firefox
		Let students prepare for presentations + answer questions	
	Dufour Anne-Marie Minkó Mihály	Students presentations	
	Gathering		

We reserve the right to change the timetable.