




5.00 credits

30.0 h + 30.0 h

Q1

Teacher(s)	Lee John ;
Language :	English
Place of the course	Louvain-la-Neuve
Learning outcomes	
Evaluation methods	Oral examination with preparation time. Practical modalities depend on sanitary conditions. Examination is split in 12/20 for the course and 8/20 for the project.
Teaching methods	Lectures, practical sessions on computers, project. All activities can switch from presential to comodal or distancial depending on sanitary conditions.
Content	<ul style="list-style-type: none"> · What and why information visualisation? · Data abstraction: types of data and of datasets · Which visualisation for which task? · Validating visualisations · Display and ocular perception · Visualisation channels (colour, size, shape, angle, ...) · Tabular data: lists, matrices, tensors · Spatial data: scalar, vector and tensor fields · Networks and trees · Link between machine learning and visualisation: clustering, dimensionality reduction, graph embedding · Interactive visualisation · Multiple views · Advanced topics in visualisation
Inline resources	Moodle page of the course: https://moodleucl.uclouvain.be/course/view.php?id=12042
Bibliography	Visualization analysis & Design, Tamara Munzner, CRC Press, 2015.
Faculty or entity in charge	EPL

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Data Science Engineering	DATE2M	5		
Master [120] in Data Science: Information Technology	DATI2M	5		
Master [120] in Mathematical Engineering	MAP2M	5		
Master [120] in Data Science : Statistic	DATS2M	5		