


5 credits

30.0 h + 30.0 h

Q1

Teacher(s)	Lee John ;
Language :	English
Place of the course	Louvain-la-Neuve
Aims	<i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i>
Evaluation methods	Oral Exam
Teaching methods	Lectures, practical sessions on computers, project
Content	<ul style="list-style-type: none"> <li>· What and why information visualisation?</li> <li>· Data abstraction: types of data and of datasets</li> <li>· Which visualisation for which task?</li> <li>· Validating visualisations</li> <li>· Display and ocular perception</li> <li>· Visualisation channels (colour, size, shape, angle, ...)</li> <li>· Tabular data: lists, matrices, tensors</li> <li>· Spatial data: scalar, vector and tensor fields</li> <li>· Networks and trees</li> <li>· Link between machine learning and visualisation</li> <li>· Reducing items and attributes: feature selection and dimensionality reduction</li> <li>· Interactive visualisation</li> <li>· Multiple views</li> <li>· Advanced topics in visualisation</li> </ul>
Inline resources	Moodle page of the course
Bibliography	<ul style="list-style-type: none"> <li>• Slides of the course, available on Moodle</li> </ul> Visualization analysis & Design, Tamara Munzner, CRC Press, 2015.
Faculty or entity in charge	EPL

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Data Science Engineering	DATE2M	5		
Master [120] in data Science: Information technology	DATI2M	5		