Module Code	t.BA.DS.VDSS.20HS					
ECTS Credits	4					
Language of Instruction/Examination	German					
Organizational Unit	IDP					
Module Coordinator	Manuel Dömer					
Legal Framework	The module description is part of the legal basis in addition to the general academic regulations. It is binding. During the first week of the semester a written and communicated supplement can specify the module description in more detail.					
Module Characteristic	Туре За					
	2 lecture lessons per semester week and class+ 2 lab bi-weekly lessons per semester and half-class					
Module Description	This module provides basic knowledge on data visualization and data science storytelling. In practical exercises, you will learn how to a) visualize data with appropriate software and tools and b) communicate effectively with data visualizations.					
Module Content	 Visual elements and visualization types Development of personas Application and impact of data visualizations Design of data visualizations Analysis, interpretation and evaluation of data visualizations and data science stories Tools and the programming of data visualisations 					
	Analysis, interpretation and evaluation of data visualizatio	ns and data scienc	e stories			
Prerequisite Knowledge	Analysis, interpretation and evaluation of data visualizatio	ns and data scienc	e stories			
Learning Objectives	 Analysis, interpretation and evaluation of data visualizatio Tools and the programming of data visualisations 	ns and data scienc				
Learning Objectives	 Analysis, interpretation and evaluation of data visualizatio Tools and the programming of data visualisations Basic programming knowledge in Python 					
Prerequisite Knowledge Learning Objectives (Competences)	Analysis, interpretation and evaluation of data visualizatio Tools and the programming of data visualisations Basic programming knowledge in Python Students are able to describe the target group of their data	Competencies	Taxonomies			
Learning Objectives	 Analysis, interpretation and evaluation of data visualizatio Tools and the programming of data visualisations Basic programming knowledge in Python Students are able to describe the target group of their data visualization. are familiar with the visual repertoire of data visualizations 	Competencies SO, M	Taxonomies K3			
Learning Objectives	 Analysis, interpretation and evaluation of data visualizatio Tools and the programming of data visualisations Basic programming knowledge in Python Students are able to describe the target group of their data visualization. are familiar with the visual repertoire of data visualizations and visualization types. are able to visualize data by using tools and appropriate 	Competencies SO, M F	Taxonomies K3 K1, K2			
Learning Objectives	 Analysis, interpretation and evaluation of data visualizatio Tools and the programming of data visualisations Basic programming knowledge in Python Students are able to describe the target group of their data visualization. are familiar with the visual repertoire of data visualizations and visualization types. are able to visualize data by using tools and appropriate software. can design data visualizations and critically reflect on the 	Competencies SO, M F M	Taxonomies K3 K1, K2 K3 K3 K3			
Learning Objectives	 Analysis, interpretation and evaluation of data visualizatio Tools and the programming of data visualisations Basic programming knowledge in Python Students are able to describe the target group of their data visualization. are familiar with the visual repertoire of data visualizations and visualization types. are able to visualize data by using tools and appropriate software. can design data visualizations and critically reflect on the result. understand the interrelationship between data visualization and storytelling. You can apply this 	CompetenciesSO, MFMM, F, SE	Taxonomies K3 K1, K2 K3 K3, K4, K5, K6 K2, K3, K4, K4, K5			
Learning Objectives	 Analysis, interpretation and evaluation of data visualizatio Tools and the programming of data visualisations Basic programming knowledge in Python Students are able to describe the target group of their data visualization. are familiar with the visual repertoire of data visualizations and visualization types. are able to visualize data by using tools and appropriate software. can design data visualizations and critically reflect on the result. understand the interrelationship between data visualization and storytelling. You can apply this knowledge in the appropriate communication context. 	CompetenciesSO, MFMM, F, SEM, F, SO	Taxonomies K3 K1, K2 K3 K3, K4, K5, K6 K2, K3, K4, K5			

Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Form			
	oral exam Grade		15	70	acc. to module agreement			
	Performance assessment during the semester		Assessment	Length (min.)	Weighting	Form		
	written exam		Grade		15	acc. to module agreement		
	written exam		Grade		15	acc. to module agreement		
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Classroom Attendance Requirement	None							
Learning material	 Nussbaumer, K. (2015). Storytelling with data. Hoboken: Wiley. ISBN 978-1119002253. Wilke, C. (2019). Fundamentals of Data Visualization. A Primer on Making Informative and Compelling Figures. Sebastopol, CA: O'Reilly. ISBN 978-1492031086. 							
Comments								