

**SKILLS FRAMEWORK FOR DESIGN
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE**

TSC Category	Analytical Thinking					
TSC	Data and Information Visualisation					
TSC Description	Combine communication, data science and design to present complex insights and information in a manner that facilitates meaningful storytelling and better decision-making for the organisation					
TSC Proficiency	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			DSN-DAT-3018-1.1	DSN-DAT-4018-1.1	DSN-DAT-5018-1.1	
			Communicate information in a clear and efficient manner by using statistical graphics, plots and information graphics	Communicate data in an intuitive manner that stimulate audiences' engagement and attention	Integrate data and expressive storytelling to communicate key messages that resonate with the audience on both intellectual and emotional levels	
Knowledge			<ul style="list-style-type: none"> Types of data visualisation tools Types of data gathering tools Fundamental principles of graphic design and data visualisation Concept and types of data visualisation languages 	<ul style="list-style-type: none"> Types of data visualisation tools Types of data gathering tools Principles of graphic design and data visualisation Methods to customise communication for different audiences Concept and types of data visualisation languages 	<ul style="list-style-type: none"> Data visualisation tools Data gathering tools Principles of graphic design and data visualisation New developments in data visualisation 	

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<p>Abilities</p>			<ul style="list-style-type: none"> Analyse relationships and patterns in data to gather insights Define data hierarchy to simplify complex data and prioritise key information Integrate quantitative and qualitative descriptions of data set Use design elements such as colour, size and position to draw attention to particular data points and show hierarchy Use data visualisation tools to present data stories in creative and effective ways Edit source codes to design interactive charts and customise maps 	<ul style="list-style-type: none"> Design graphics to communicate key messages Organise large data sets in a coherent manner Analyse how audiences process visual information to determine suitable styles and purposes for visual analytics Evaluate data to make comparisons and draw causalities Present data in several levels of detail, from broad overview to fine structure Use data visualisation tools to create data stories Write headlines to communicate the key message of the visualisation Identify appropriate tools to communicate intended data stories for target audiences Troubleshoot and resolve issues pertaining to source code templates 	<ul style="list-style-type: none"> Articulate purposes for visual analytics for description, exploration, tabulation or decoration Direct the utilisation of data visualisation tools to present data stories in a stimulating way Direct stakeholders in determining the visuals to be used for communication of information Lead the development of proposed visuals for communication Review visuals to ensure that large data sets are presented in a coherent manner 	
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