Capstone Design Team Formulation Exercise

R0.1, September 2016

This exercise is provided to give you some insight into things to consider when forming design/implementation teams. The content of this document, the method used, and the survey are taken from the book "Teamology: The Construction and Organization of Effective Teams" by Douglass J. Wilde of Stanford University. His book, published by Springer-Verlag London Ltd. in 2009, ISBN 978-1-84800-386-6, can be accessed for free via the SpringerLink portal accessible through the University of Alberta library web site.

Adding a few people who know less, but have diverse skills, actually improves the group's performance.

– James Surowiecki, The Wisdom of Crowds, 2004

The approach here uses Jung's cognition theory and a variation of the Myers-Briggs Type Indicator (MBTI) to look at an individual's "modalities". Having these modalities covered by a formed group has proven to lead to improved performance and better learning. Most individuals naturally operate in one or two areas, shown in Table 1.1, below, taken directly from the book.

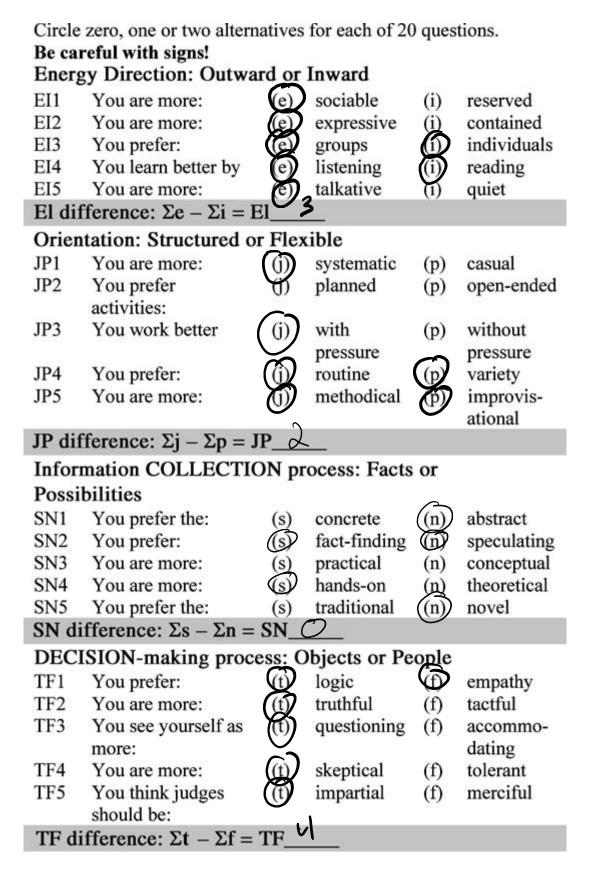
Table 1.1 Jung's cognitive modes

2	0				
Extraverted Sensing	Extraverted iNtuition	-	Extraverted Thinking	Extraverted Feeling	
ES	EN		ET	EF	
EXPERI- MENT	IDEATION		ORGANI- ZATION	COMMU- NITY	
\times					
Introverted Sensing	Introverted iNtuition	-	Introverted Thinking	Introverted Feeling	
IS	IN		IT	IF	
KNOW- LEDGE	IMAGI- NATION		ANALYSIS	EVALUA- TION	
INFORMATION COLLECTION			DECISION MAKING		

INFORMATION COLLECTION

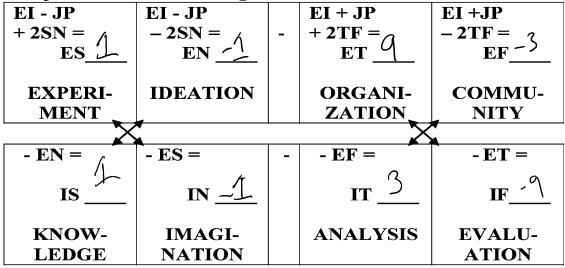
DECISION-MAKING

Complete the questionnaire on the next page to find out where you prefer to operate!



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Compute and record **non-negative** scores below.



INFORMATION COLLECTION

DECISION-MAKING

Please note that this categorization is approximate, and indicates only affinities for the cognition modes!

Forming a group with these modes covered to varying degrees makes it more likely that when the group is presented with a problem, differing perspectives are coming into play. As we will see throughout the course, having differing perspectives is *very* important in achieving a solid, practical design.

Please detach this portion of the sheet and submit!

Name: Daylen Mackey

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Modality	Your Score	
ES	1	
EN	-1	
IS	1	
IN	-1	
ET	9	
EF	_ 3	
IT	3	
IF	-9	