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¹ Personality Predictors of Polychronicity among Young Adults

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4	Received: 5 April 2015 Accepted: 1 May 2015 Published: 15 May 2015
5	

6 Abstract

 $_{7}$ $\,$ Researchers are increasing their attention to the multitasking demands of current

⁸ organizational settings and focusing on the Time-use related values and strengths of

⁹ individuals. Several researches have been carried out to explore and examine the dimension of

¹⁰ polychronicity in this perspective. Polychronicity is the attitude and preferences associated

- ¹¹ with time use and it has been identified as a critical competency in organizing various life
- ¹² domains. However, there has been substantial ambiguity existing in the literature and

¹³ empirical researches regarding psychological predictors of polychronicity. The incongruent

¹⁴ conceptualization of the construct might have revealed contradictory results in several studies

¹⁵ across the globe. The present study conceptualized polychronicity as an individual difference

¹⁶ construct and explored the personality predictors of polychronicity among 902 young adults.

¹⁷ By using a cross sectional, descriptive design the participants were administered

18 HEXACO-Personality Inventory, Sensory Sensitivity scale (FCB-TI) and Multitasking

¹⁹ Preference Inventory (MPI). Correlational analysis and Hierarchical regression was used to

 $_{\rm 20}$ $\,$ analyze the data. Results revealed that Polychronicity was significantly related to Personality

²¹ and Sensory Sensitivity. The results of hierarchical regression showed that Sensory Sensitivity,

22 Conscientiousness and Extraversion as significant predictors of polychronicity among young

23 adults.

24

25 Index terms— polychronicity, personality, sensory sensitivity, young adults.

26 1 Introduction

here are various aspects of time that characterize human life. Every individual values time from a different 27 perspective. Broadly, there may be two approaches of time-use a) Objective approach and b) subjective approach. 28 Time is considered as a uniform commodity in the objective approach. Past studies have considered time in terms 29 of amounts available, assessing "deficits" or pressures which result from having too little time (Arndt et al., 30 1981;Becker, 1965;Gronau, 1977;Hill, 1985). Objective time is characterized by concrete or measurable quantities 31 of time which people actually have to work with, whereas Subjective time is based on people's perceptions of the 32 amounts of time available, relative to the things they have to do. With this time-use perspective in background, 33 individuals may be categorized into two types, polychronic and monochronic individuals. The perception of time 34 35 for monochronic and polychronic people differs in context of their preference of time-use. Polychronicity may 36 be defined as "a non-cognitive variable reflecting an individual's preference for shifting attention among ongoing 37 tasks, rather than focusing on one task until completion and then switching to another task" (Poposki et. al., 2009). Task was defined as a discrete set of activities engaged in for the purposes of attaining a goal, and can 38 be considered and measured from relatively subjective and/or objective points of view (Poposki et. al., 2009). 39 On the other hand Monochronic individuals are those who prefer to handle each task at a time rather than 40 multitasking. 41

Although the role of polychronicity in work place has been empirically studied and established as a crucial factor for many organizations, the studies have been focused on different dimensions. Several researches have been conducted to find its relationship with cultural variations, work environment, cognitive capabilities or with
 other individual difference variables.

As several researches provide views regarding the antecedents of polychronicity, there remains much ambiguity. 46 47 Due to the fact that polychronicity was initially conceptualized as a cultural variable, existing literature for the role of culture as a predictor of polychronicity is elusive. A summary of these studies by König and Waller (2010) 48 revealed contradictory results. No significant differences in polychronicty was found among Bulgarian, Chinese, 49 Hungarian, Mexican, Polish, Ukranian and US small business owners (Carraher et al., 2004), French and US 50 students (Conte et al., 1999), Anglo Americans and recent Latin American immigrants (Cotte & Ratneshwar, 51 1999), India, U.S., and Venezuelan managers and white collar workers in hospitals (Moustafa et al., 2005). On the 52 other hand significant differences were found among Japanese students studying in the U.S. and U.S. students 53 (Lindquist et al., 2001), Chinese and U.S. Americans (Zhang et al. 2003). The opposing findings in several 54 studies may be due to the reason that the questionnaires used to measure polychronicity varied across cultures, 55 although such measurement invariance in testing has been argued to be a prerequisite to testing mean differences 56 between cultures ??Vandenberg,2002;Vandenberg and Lance, 2000). Different interpretation of task and time 57 may also have resulted in variation among different cultures. 58 59 Many a times, to reach to sufficient performance level and attain several goals, individuals may be required 60 to multitask. Those successful individuals who tend to follow this activity may be likely to develop a preference 61 for multitasking, thus increasing their levels of polychronicity. Researchers have stated two assumptions behind 62 the role of work environment as predictor of polychronicity. First, the work environments differ in the required amount of multitasking, and the second is that being driven or required to work in multitasking way leads 63 to developing a preference for multitasking (i.e. polychronicity). The first assumption can be supported by 64 studies of interruptions as triggers of multitasking (Carlson, 1951;González & Mark, 2005;Kurke & Aldrich, 65 1983, Oshagbemi, 1995). The second assumption comes from cognitive dissonance theory by Festinger (1957), 66 which predicts that people experience discomfort when they engage in behaviours that conflict with one's beliefs 67 68 or preferences. This discomfort can be reduced by modifying the preferences. It means that an individual who is forced to multitask, who would not prefer to do so, may change one's preference by becoming more 69 polychronic (Conte et al. 1999). Although, this view lies on the assumption that polychronicity can change, 70 which all polychronicity researchers may not believe. As Slocombe and Bluedorn (1999) stated that "preferences 71 for monochronic or polychronic behaviour seem more likely to be fundamental personality traits than ephemeral 72 73 states." The study by Hecht and Allen (2005) empirically supports the view that environment plays an important 74 role in influencing polychronicity. Significant correlation was found between polychronicity and "polychronicity

75 supplies".

The general mental ability of an individual might play a role in developing one's polychronic tendency, but 76 researches have not yet found very significant relation between these two dimensions. König et al. (2005) argued 77 that polychronic people might have a preference for working on several things at once because they have found 78 themselves to be adept at multitasking. However, empirical evidence for this hypothesis is weak. Polychronic 79 80 people may have a preference for multitasking because they find it relatively easy due to their high general mental abilities. Conte and Jacobs (2003) found a positive relationship between polychronicity and mental abilities among 81 train operators, but they also report slightly lower correlations between polychronicity and mental abilities among 82 student sample that was not significant. 83

Several researchers have stated polychronicity to have significant relation with the Big Five personality 84 traits. Konig and Waller (2010) summarized the studies and found that polychronicity seems to be unrelated 85 to neuroticism, openness and agreeableness and the evidence regarding conscientiousness is inconclusive. But 86 there is a weak but consistent positive relationship between extraversion and polychronicity across five different 87 studies (Conte & Jacobs, 2003 ??987). An important element of the ability to successfully multitask is the 88 ability to remain calm and control anxiety that is produced by the need to switch tasks (Oswald et al., 2007). 89 Because multitasking requires an individual to switch attention between tasks, often unexpectedly and in the 90 presence of time pressures (Delbridge, 2000), it is expected that anxious individuals will perform less effectively 91 in such an environment as consistent with previous research (Oswald et al., 2007). The existing literature reports 92 weak negative correlations between neuroticism and polychronicity, although some not reaching the level of 93 significance (Conte & Gintoft, 2005;Conte & Jacobs, 2003;Oswald et al., 2007; ??oposki et al., 2009a) but one 94 study reports positive correlations using multiple measures of polychronicity (Stachowski, 2011). If individuals 95 high in neuroticism are not successful multitaskers, it is expected that they will prefer to work on only one task 96 at a time. 97

Polychronic individuals may find it difficult to work effectively in highly organized settings (Arndt et al., 2006). It is likely that individuals high in conscientiousness will prefer to work on one task at a time through to completion, according to their preferred schedule. The polychronic nature of work does not seem toalign with the methodical nature of conscientious workers. It is expected that individuals high in levels of conscientiousness prefer to complete one task at a time. Therefore, it is likely that conscientiousness individuals will not be polychronic (Sanderson, 2012).

Agreeableness is a personality trait marked by flexibility, trusting, tolerance, and cooperativeness (Barrick & Mount, 1991).It is likely that flexibility will be associated with a willingness to shift attention between tasks when interrupted. Polychronicity is related to tolerance for ambiguity and unstructured work Volume XV Issue II Version I 44 () environments (Haase, Lee & Banks, 1979). Furthermore, previous meta-analytic research has found agreeableness to be related to job satisfaction (Judge, Heller & Mount, 2002), another attitudinal construct positively related to polychronicity (Arndt et al., 2006). Therefore it is likely that agreeableness is positively related to polychronicity.

Openness to experience is characterized as artistic, intelligent, open minded, cultured, and exhibiting broad interests (Barrick & Mount, 1991). Most of the existing research reports weak non-significant positive relationships (e.g., Conte & Jacobs, 2003;Conte & Gintoft, 2005) between polychronicity and openness to experience.

In 1999, Conte et al. argued that having a Type A behaviour pattern (Friedman & Rosenman, 1974) leads 115 to Polychronicity. People who exhibit Type A behaviour pattern are characterized by traits such as impatience, 116 aggressiveness, a sense of time urgency, and the desire to achieve recognition and advancement. Empirically, 117 correlation between Type A behaviour pattern (and/or its sub-dimensions) and polychronicity have been identified 118 (Conte et. al, 1999;Ishizaka, Marshall, & Conte, 2001). Polychronicity is likely to be related to both achievement 119 striving and impatience or irritability which are classic Type A behaviour. Conte et al. (1999) stated that 120 "achievement-oriented individuals may attempt to multi-task in order to accomplish more goals in the same 121 time." 122

123 Although there are several studies with contradicting results regarding personality and polychronicity, the 124 relationship between temperament and polychronicity has not been much explored. According to Allport ??1937, ??961, cited in Strelau, 1998) temperament refers to the characteristic phenomena of individual's emotional 125 nature, including his susceptibility to emotional stimulations, his customary strength and speed of response, 126 the quality of his prevailing mood, and all peculiarities of fluctuation and intensity in mood; these phenomena 127 being regarded as dependent upon constitutional make-up, and therefore largely hereditary in origin. Newberry, 128 Clark, Strelau, Angleitner, Hollinger-Jones & Eliasz (1997) stated that temperament is at least partly distinct 129 from personality and that temperament variables appear to concern the "how" of behavior, whereas personality 130 describes the "what" of behavior. It may be considered that personality is the result of temperament and the 131 influence of experience. In this study, it is also intended to explore whether polychronicity has any link with 132 temperament. As temperament includes formal behavioral traits only, manifested in all kinds of reactions and 133 actions independent of content, it might be linked to an individual's approach towards time stimulus. One of the 134 dimensions of temperament is Sensory Sensitivity, which is related to sensory thresholds. Eysenck (1967) used 135 sensory sensitivity in his description of the extraversion-introversion dimension. Although ??trelau and Zawadzki 136 (1995), and Fruehstorfer (2005) found that introversion extraversion was not related to Sensory Sensitivity. Strelau 137 (1993) suggested that sensory sensitivity is primarily noticed in reactions to tactile, olfactory and visual stimuli, 138 although thresholds obtained in the laboratory are only weakly related to questionnaire measures of Sensory 139 Sensitivity ?? Strelau & Zawadzki, 1995). ?? trelau and Zawadzki (1995) indicated that sensory has a relationship 140 with openness-this may be representative of experience seeking. It is feasible that sensory sensitivity may be 141 more characteristic of one's openness to experience-one who is keenly aware of self, surroundings and relationship 142 among stimuli. Polychronic individuals are more likely to react to surrounding stimuli while continuing a task or 143 shifting attention among ongoing tasks. 144

Therefore, Polychronicity may have a significant relationship with temperament of an individual. Thus, as a biological predisposition of personality Sensory sensitivity has been included in the predictor battery of the study. The aim of this study is to study the relationship among Personality, Sensory sensitivity and Polychronicity in young adults and to explore the personality predictors of polychronicity.

149 **2** II.

150 3 Research Design

151 For this study a cross sectional, descriptive design was used. Objectives

4 ? To study the relationship among Personality, Sensory Sensitivity and Polychronicity in young adults

¹⁵⁴? To explore the personality predictors of Polychronicity among young adults III.

155 5 Method a) Participants

The sample for the present study consisted of 902 young adults. The mean age of the participants was 21.3 years (SD=2.34), out of which 690 (76%) were male and 212 (24%) were female. The candidates belonged to different streams of education.

¹⁵⁹ 6 b) Measures

The predictor battery included measures of personality, Sensory Sensitivity Scale and demographic details.
 Criterion included measure of Polychronicity.

Personality: The 60 item HEXACO-Personality Inventory-Revised developed by Ashton & Lee (2009) was used to measure the six major dimensions of personality including Honesty-Humility (H), Emotionality (E), Extraversion (X), Agreeableness (A), Conscientiousness (C), and Openness to Experience (O). Participants were asked to indicate their agreement on a series of items ranging from 1 (strongly disagree) to 5 (strongly agree).

Each of the six HEXACO scales had acceptable internal reliability (H: ?=.82; E ?=.75; X ?=.78; A ?=.78; C ?=.80; O ?=.66).

Sensory Sensitivity: 23 items measuring sensory sensitivity was used to measure the ability to react to lowintensity physical stimuli. These items were taken from the Formal Characteristics of Behavior-Temperament
Inventory (FCB-TI), adapted from the original Polish FCB-TI (Strelau & Zawadzki, 1995b; ??trelau & Zawadzki,
1993;1995a). The scale was found to be internally consistent with Cronbach's alpha .72.

Polychronicity: The 14-item Multitasking Preference Inventory (MPI) was developed by Poposki and Oswald (2010) to measure an individual's preference to engage in multiple tasks simultaneously. The scale was developed and validated on multiple samples, in which the scale demonstrated adequate internal consistency, with the Cronbach's alpha reliability estimates ranging from .88 to .91. Items were scored on a five point Likert scale with the response options ranging from 1 (Strongly disagree) to 5(Strongly agree).

¹⁷⁷ 7 c) Procedure

All the participants were asked to complete a questionnaire consisting of three scales, namely the HEXACO-60, the Sensory Sensitivity Scale and the Multitasking Preference Inventory. The HEXACO-60 and the Temperament Inventory was used to find whether personality and sensory sensitivity of an individual predicts one's preference for multitasking. Data was collected from 902 participants in Mysore, Varanasi and Dehradun. Individuals were

explained the nature of the measures and proper instructions were given before administering the tests.

183 8 IV.

184 9 Results

Descriptive statistics for all the predictor variables and the criterion variable was calculated. Correlational analyses were conducted to examine the relationships between personality variables, temperament variable and polychronicity. The values in parentheses are coefficient alphas.

An independent sample t-test was performed to determine if there were significant mean differences between 188 189 the two genders. Results of the t-test are summarized in Table 2. and it shows that there were no significant difference in polychronicity among males and females, t (900) = .263, p>.05. There was significant difference 190 191 among males and females on Honesty-Humility, t (900) =-4.39, p<.01, Emotionality, t (900) =-4.18, p<.01, Extraversion, t (900) =-2.58, p<.05, Agreeableness, t (900) =-1.55, p<.05, Conscientiousness, t (900) =-3.89, 192 p<.05, Openness to Experience, t (900) =-2.82, p<.05 and Sensory Sensitivity, t (900) =-7.5, p<.05. Thus, 193 there was no significant difference in Polychronicity among male and female participants. Hierarchical regression 194 analyses were conducted to determine whether the six dimensions of personality and sensory sensitivity provided 195 incremental validity above the contribution of demographic variables. Before entering the predictor variables 196 into the model, multicollinearity of the predictor variables were checked from Table 1. Although all the predictor 197 variables were inter-correlated, there were no perfect collinearity between the variables. Low levels of collinearity 198 did not pose much threat to the model estimates. Gender and Age were entered in step 1 and the personality 199 200 variables along with sensory sensitivity were entered in step 2. The predictor variable (Personality variable) that has the highest correlation with Criterion Variable (Polychronicity) is entered first into the regression 201 analysis. With reference to the correlational coefficients from Table 1, Sensory Sensitivity was entered first into 202 the model, followed by Extraversion, Agreeableness, Honesty-Humility, Emotionality, Openness to experience 203 and Conscientiousness respectively. All the personality variables were entered into the model as all the variables 204 were significantly correlated to polychronicity. The relative contributions of these variables were examined by 205 inspecting their standardized regression coefficients (?). The significance of the change in variance accounted for in 206 step 2 were examined for evidence of incremental validity of the personality and temperamental variable. Table 3 207 represents the results of hierarchical regression analysis. In step 1, the value of change in \mathbb{R}^2 of control variables was 208 -.002 (p>.05) which indicated that gender and age did not account for any variance in the criterion variable. The 209 210 result showed that when personality variables were entered into the model in step 2, only three variables predicted 211 polychronicity. These predictor variables were Sensory Sensitivity (?=.43, p<.01), Conscientiousness (?=-.16, 212 P<.01) and Extraversion (?=.17, p<.01) and these variables accounted for 20% of the variance in polychronicity. Sensory Sensitivity accounted for 17% variance in polychronicity (Î?"R²=.17). The addition of Conscientiousness 213 as predictor variable along with Sensory Sensitivity accounted for 19% of variance in polychronicity (Î?"R²=. 214 19). With addition of Extraversion along with Sensory Sensitivity and Conscientiousness, the predictor variables 215 accounted for 20% of variance in Polychronicity (Î?"R²=.20). Thus, Sensory Sensitivity, Conscientiousness and 216 Extraversion accounted for variance in polychronicity. 217

218

V.

219 10 Discussion

The purpose of this study was to examine the relationship between personality dimensions and polychronicity and to explore the personality predictors of polychronicity. Polychronicity was found to significantly correlate with all the six dimension of personality. As polychronicity is one's preference for time use, it is related to the personality dimensions.

Research shows an inconsistent result regarding its relation to individual difference variables. Extraversion is 224 marked by sociability, and extraverts tend to be active, talkative and friendly (Barrick & Mount, 1991). The 225 activity level of extraverts are high and polychronic individuals tend to be distracted more easily by other tasks 226 in the workplace (Sanderson, 2012). Individuals high in polychronicity tend to be more concerned with social 227 interactions than schedules and deadlines (Arndt et al., 2006)). In the present study, polychronicity is positively 228 related to emotionality, although the correlation is very small. In 2011, Stachowski found positive correlation 229 between polychronicity and neurotism using multiple measures of polychronicity. An individual high in emotional 230 stability may prefer to complete one task and then switch to another. Individuals low on emotional stability may 231 prefer to jump from one task to another. Thus, polychronicity and emotionality may have a positive, yet small 232 correlation. 233

Conscientiousness is characterized by reliability, striving for achievement, concern for detail and organization (Barrick & Mount, 1991). Polychronic individuals may find it difficult to work effectively in highly organized settings (Arndt et al., 2006). It is likely that individuals high in conscientiousness will prefer to work on one task at a time through to completion, according to their preferred schedule. The polychronic nature of work does not seem to align with the methodical nature of conscientious workers. It is expected that individuals high in levels of conscientiousness prefer to complete one task at a time. Therefore, it is likely that conscientiousness individuals will not be polychronic.

Openness to experience is characterized as being creative, inquisitive, intelligent, and cultured (Barrick 241 242 & Mount, 1991). Openness to experience also includes flexibility in approach towards tasks which links it 243 to ploychronicity. Openness to Experience was significantly related to four measures of Polychronicity in a 244 study by Sanderson (2012). Agreeableness is a personality trait marked by flexibility, trusting, tolerance, and cooperativeness (Barrick & Mount, 1991). In the present study, polychronicity was significantly related to 245 agreeableness. It is likely that flexibility will be associated with a willingness to shift attention between tasks 246 when interrupted (Stachowski, 2011). Polychronicity is related to tolerance for ambiguity and unstructured work 247 environments (Haase, Lee & Banks, 1979). Another dimension used in this study is sensory sensitivity, which is 248 the ability to react to sensory stimuli of low stimulative value. Sensory sensitivity may be more characteristic of 249 one's openness to experience and extraversion, one who is keenly aware of self, surroundings and relationships 250 among stimuli. Thus, it is likely that sensory sensitivity will be related to polychronicity as polychronic individuals 251 are likely to react to low stimulus values in the environment. Extraversion and conscientiousness were significant 252 unique predictors of polychronicity in a study by Sanderson (2012). Although there is not much evidence of the 253 relationship between sensory sensitivity and polychronicity to support the findings of this study, it leads to a 254 new concept to explore further. The above findings supported the present study, in which sensory sensitivity, 255 extraversion and conscientiousness were significant predictors of polychronicity. 256

There are some limitations of the present study. The measures of this study were administered to mostly students as opposed to a working population. There may be a difference in time use preferences among students and employees. The numbers of male subjects were much more compared to female subjects in the study. This variation in number of data may have influenced the analysis. Apart from these limitations, self report measures used for the study have its own disadvantages which can not be overlooked. Socially desirable responses may have distorted the data to certain extent.

Based on the limitations described above, a number of recommendations for future research can be made. A 263 similar study may be carried out with a working population. It is possible that the results from this study with 264 young adults might not be generalized to the greater population of people in the workplace. Data may be collected 265 from a sample more diverse in age. To study the gender differences a comparable number of samples of both 266 gender may be considered. Future studies may also explore the measurement of polychronicity and personality 267 and test the fakability of the measures of these constructs in diverse samples. Finally, the link between sensory 268 sensitivity and Volume XV Issue II Version I 48 () polychronicity may be explored in a diverse sample to 269 strengthen the evidence. 270

In today's working environment, time orientation is an important consideration for all organizations. With increasing demand of multitasking, polychronic individuals are potential employees in several organizations. Information about personality predictors of polychronicity may provide selection practitioners with meaningful facts regarding the potential utility of polychronicity assessments during recruitment and job allocation. Results of this study showed that polychronicity was significantly related to all the dimensions of personality. It also revealed that sensory sensitivity, extraversion and conscientiousness predicted polychronicity in this study.

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²Personality Predictors of Polychronicity among Young Adults

1

Variables	Mean	SD	1	2	3	4	5	6	7	8
Honesty-Humility	35.47	6.86	1.00(.76)	6)						
Emotionality	26.57	6.23	.203**	1.00(.7	4)					
Extraversion	35.75	6.82	.656**	.199**	1.00(.8	31)				
Agreeableness	33.36	6.24	.678**	.270**	.629**	1.00	(.78)			
Conscientiousness	35.30	6.70	.707**	.186**	.735**	.632	** 1.00	(.83)		
Openness to	34.22	6.80	.607**	.289**	.660**	.585	** .672	**1.00	0(.77))
Experience										
Sensory Sensitivity	80.02	8.18	.523**	.282**	.558**	.559	** .484	**.519	9*1.0	0(.82)
Polychronicity	36.10	10.48	.182**	.162**	.235**	.195	** -	.155	5**41	2*1*00
							.120	**		

Note. ** p<.01

1 = Honesty-Humility, 2 = Emotionality, 3 = Extraversion, 4 = Agreeableness, 5 = Conscientiousness, 6 = Open to Experience, 7 = Sensory sensitivity, 8 = Polychronicity

Figure 1: Table 1 :

Dimensions	$\begin{array}{c} \text{Males} \\ (N=690) \end{array}$	SD	$\begin{array}{c} \text{Females} \\ (N=212) \end{array}$	SD	t
Honesty-Humility	34.92	7.09	37.26	5.75	-4.39**
Emotionality	26.09	6.28	28.12	5.82	-4.18**
Extraversion	35.43	7.08	36.81	5.78	-2.58**
Agreeableness	33.94	6.45	34.82	5.43	-1.55**
Conscientiousness	36.85	6.97	33.86	5.46	-3.89**
Openness to	33.85	7.07	35.37	5.70	-2.82**
Experience					
Sensory Sensitivity	78.26	9.05	85.77	11.27	-7.00**
Polychronicity	36.15	11.33	35.93	7.05	.263

Figure 2: Table 2 :

3

 $\mathbf{2}$

		Extraversion	
	Predictor	$\hat{\mathrm{I}}?"\mathrm{R}^2$?
Step 1	Control Variable	002	
	Gender		012
	Age		.010
Step 2	Predictor Variable		
	Sensory Sensitivity	.17	.43**
	Conscientiousness	.19	16**
	Extraversion	.20	.17**
	N=902		
Dependent Variable	e: Polychronicity		
0.1			

p < .01

Figure 3: Table 3 :

Figure 4:

10 DISCUSSION

- Year 2015 A 278
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