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Versions included in this document:

- IPQ     Standard self-report version
- IPQ-S   Self-report version using a verbal phrase format
- IPQ-R   Rater version using a verbal phrase format

## The Interpersonal Questionnaire

The IPQ duodecant scales provide efficient, reliable markers of twelve locations around the perimeter of the *circumplex model of interpersonal traits* (IPC; for reviews of the IPC, see Wiggins, 1980; 1995). The IPC summarizes the domain of "interpersonal" dispositions, those dispositions involving interaction between persons (e.g., *assertive* involves social interaction, whereas *tidy* does not). Interpersonal theory (e.g., Carson, 1991; Leary, 1957; Wiggins, 1980; 1991; Wiggins & Trapnell, 1996) interprets such traits as varying blends of two major dimensions of interpersonal meaning, power (e.g., status, dominance) and warmth (e.g., alliance, nurturance). According to interpersonal theory, virtually all social interaction entails negotiation of a relationship between interactants defined largely in terms of interactants' relative power and warmth. In this view, interpersonal dispositions or traits represent variations in preferred or characteristic levels of interpersonal dominance and interpersonal warmth displayed in social interactions. The range of possible interpersonal dispositions is well-described by a circular array of dispositions ordered with respect to those two social resource dimension, power and warmth. The IPQ defines twelve interpersonal styles representing differing blends of those two dimensions: Assertive, Dominant, Manipulative, Coldhearted, Aloof, Introverted, Timid, Deferent, Agreeable, Nurturant, Affiliative, and Extraverted. For example, the trait of "manipulative" defines a dyadic orientation of moderate dominance and very low warmth. The trait of "deference" defines a dyadic orientation of very low dominance and moderate warmth. The remaining IPQ traits can be understood in a similar manner.

### Duodecant Scores

Scores on each of the twelve duodecant scales are calculated by taking the mean of the item responses for the six IPQ items keyed for each one. See the Scoring Key and SPSS statements (below) to determine which six items are scored for each duodecant scale. These raw scores can be converted to standard scores (T-scores). The 12 scores can be plotted on the enclosed graph, or profile sheet. To plot a profile, draw a line across each of the 12 sectors of the graph at the distance from the origin corresponding to the duodecant score (the T-score, not the initial raw score) for that region. Then shade or fill in the area between the center or origin of the graph and the levels of the 12 scores. The filled in area on the graph represents an *interpersonal profile*, or customary interpersonal behavioral style during social interactions. Interpersonal profiles for different persons or different groups of persons (mean profiles across individuals within a group) can be compared. Profiles for a single person from different raters can also be compared (included are both 1<sup>st</sup> person and 3<sup>rd</sup> person IPQ forms). Comparisons can be evaluated by simple visual inspection of the graphs, or by quantitative methods for comparing circular profiles (e.g. Gurtman & Balakrishnan, 1998).

### Dimension Scores

To preserve the duodecant scales' score range of 1-5, a second set of duodecant scores are first computed following reverse coding of item responses. Dimension scores are expressed as mean item responses computed from linear combinations of subsets of duodecant scores and reverse-coded duodecant scores. Different investigators have proposed different superordinate dimensions for summarizing the interpersonal trait domain. (see Figure 2). These differences can be represented as alternative rotations of the two interpersonal dimensions of dominance and warmth (see Table 1). The IPQ's 12 duodecant scores may be combined in alternative ways to provide some of these alternative rotations.

## References

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Table 1.

## Descriptive statistics, angular locations and vector lengths for revised IPQ items

Scale/Item	Angle	VL	Mean		SDev		GDiff.
			M	W	M	W	<i>d</i>
<b>Assertive (90°)</b>	<b>094</b>	<b>.855</b>	<b>3.29</b>	<b>3.13</b>	<b>.85</b>	<b>.86</b>	<b>-.19</b>
39. Loves being in the spotlight.	086	.666	3.19	3.10	1.21	1.21	-.07
58. Loves to be the center of attention.	087	.657	2.96	2.92	1.26	1.20	-.03
07. Is naturally leader-like, a born leader.	091	.630	3.56	3.40	1.07	1.13	-.14
11. Is very vocal and outspoken by nature.	092	.659	3.44	3.33	1.15	1.20	-.09
56. Likes to be top dog.	105	.601	3.33	2.92	1.24	1.18	-.34
48. Tends to take charge when around others.	108	.602	3.24	3.11	.99	1.04	-.13
<b>Dominant (130°)</b>	<b>126</b>	<b>.871</b>	<b>3.07</b>	<b>2.76</b>	<b>.72</b>	<b>.75</b>	<b>-.41</b>
28. Is very assertive by nature.	114	.596	3.24	3.05	1.07	1.03	-.18
18. Has a strong personality that at times intimidates people.	118	.587	3.16	3.10	1.10	1.20	-.05
08. Is likely to control others rather than let others control him/her.	125	.654	3.48	3.16	1.03	1.10	-.29
63. Imposes her/his will on others.	126	.587	2.91	2.58	1.06	1.01	-.32
36. Is commanding and forceful in social situations.	132	.575	2.75	2.28	1.03	.98	-.46
02. Is capable of walking over people who get in the way.	140	.686	2.87	2.36	1.12	1.10	-.45
<b>Manipulative (150°)</b>	<b>150</b>	<b>.825</b>	<b>2.75</b>	<b>2.23</b>	<b>.76</b>	<b>.75</b>	<b>-.66</b>
14. Is willing to be ruthless at times to get what he/she wants.	140	.580	2.98	2.55	1.24	1.22	-.35
41. Finds it easy to manipulate others to his/her advantage.	142	.611	2.88	2.13	1.19	1.04	-.66
70. Takes advantage of others.	153	.624	2.31	1.86	1.03	.92	-.46
31. Is sly and cunning in getting what he/she wants from people.	154	.559	2.93	2.17	1.11	1.07	-.67
51. Doesn't mind being rude to get what he/she wants.	156	.635	2.46	2.07	1.14	1.09	-.35
55. Can be callous to people at times.	158	.577	2.94	2.57	.94	.99	-.37
<b>Coldhearted (180°)</b>	<b>183</b>	<b>.835</b>	<b>2.58</b>	<b>2.20</b>	<b>.77</b>	<b>.74</b>	<b>-.49</b>
10. Has a cold manner of dealing with people at times.	174	.559	2.81	2.44	1.10	1.15	-.32
19. Has an insensitive manner with people at times.	174	.586	2.78	2.39	1.11	1.12	-.35
47. Might be considered a bit coldhearted.	178	.689	2.36	1.86	1.18	1.08	-.44
17. Is sometimes a bit frosty or indifferent to people.	184	.494	3.02	2.84	.90	1.06	-.18
27. Feels little concern for others.	189	.466	2.04	1.65	1.11	.98	-.38
45. Tends not to like that many people.	198	.668	2.49	2.01	1.25	1.07	-.42
<b>Aloof (210°)</b>	<b>212</b>	<b>.861</b>	<b>2.25</b>	<b>1.88</b>	<b>.80</b>	<b>.70</b>	<b>-.49</b>
66. Is not really interested in others.	199	.621	2.14	1.79	1.09	.89	-.36
40. Is not particularly fond of talking to people.	211	.676	2.12	1.79	1.06	.95	-.33
06. Is not especially cheery toward people.	213	.662	2.03	1.75	.99	.83	-.31
57. Rarely smiles.	213	.548	2.01	1.49	1.25	.87	-.51
24. Rarely opens up to people, not even to friends.	216	.543	2.56	2.11	1.29	1.26	-.35
53. Likes to remain aloof, keeping his/her distance from others.	217	.658	2.66	2.36	1.11	1.06	-.28
<b>Introverted (240°)</b>	<b>238</b>	<b>.848</b>	<b>2.61</b>	<b>2.37</b>	<b>.89</b>	<b>.85</b>	<b>-.28</b>
35. Dislikes having a lot of people around him/her.	227	.613	2.57	2.20	1.18	1.06	-.33
50. By nature, is not very sociable.	229	.738	2.30	1.95	1.25	1.08	-.31
13. Usually wants to avoid social situations.	233	.646	2.29	2.04	1.15	1.04	-.23
65. Often feels uncomfortable around others.	235	.610	2.58	2.33	1.22	1.14	-.21
30. Prefers to stay well in the background at a party.	253	.674	2.63	2.36	1.16	1.15	-.23
60. Is quiet around strangers.	253	.579	3.27	3.32	1.29	1.29	.04
<b>Timid (270°)</b>	<b>267</b>	<b>.856</b>	<b>2.61</b>	<b>2.66</b>	<b>.71</b>	<b>.75</b>	<b>.07</b>
32. Tends to be the quiet one in a group.	258	.725	2.59	2.42	1.29	1.28	-.13
52. Avoids being the center of attention in social situations.	258	.679	2.78	2.71	1.11	1.18	-.06
42. Shies away from positions of leadership.	262	.594	2.54	2.57	1.17	1.12	.03
21. Prefers to give the limelight to others in social situations.	267	.479	3.31	3.27	.93	1.02	-.04
03. Is not good at trying to influence people.	277	.515	2.35	2.48	1.00	1.00	.13
71. Easily gives up power to others, self-effacing.	287	.519	2.83	2.79	1.11	1.04	-.04

<b>Deferent (300°)</b>	<b>302</b>	<b>.824</b>	<b>2.91</b>	<b>3.06</b>	<b>.72</b>	<b>.75</b>	<b>.20</b>
59. Is easy to push around.	293	.441	2.09	2.50	1.15	1.18	.34
15. By nature, is not very forceful or dominant.	294	.616	2.99	3.08	1.00	1.11	.08
23. Could never be domineering toward others.	303	.552	2.96	3.01	1.01	.98	.05
16. Backs down first in confrontations to avoid conflict.	305	.522	2.82	3.00	1.22	1.22	.15
34. Finds it difficult to behave aggressively toward anyone.	309	.603	2.91	3.32	1.22	1.18	.34
05. Avoids having power over other people.	310	.603	2.94	3.18	.95	.99	.24
<b>Agreeable (330°)</b>	<b>327</b>	<b>.836</b>	<b>3.21</b>	<b>3.56</b>	<b>.66</b>	<b>.69</b>	<b>.50</b>
72. Is not good at deceiving people.	322	.481	2.56	3.26	1.12	1.15	.59
69. Avoids imposing on others.	323	.465	3.41	3.68	.99	.92	.28
38. Would not take advantage of people to get what she/he wants.	326	.533	3.39	3.70	1.18	1.16	.26
26. Is extremely unlikely to be manipulative or calculating.	327	.579	3.09	3.55	1.15	1.14	.40
44. Is an extremely gentle, unaggressive person.	329	.599	3.44	3.53	1.06	1.07	.08
67. Avoids offending others.	330	.528	3.40	3.67	1.09	1.07	.25
<b>Nurturant (00°)</b>	<b>359</b>	<b>.768</b>	<b>3.75</b>	<b>3.95</b>	<b>.66</b>	<b>.64</b>	<b>.31</b>
09. Is especially careful never to hurt anyone's feelings.	342	.551	3.74	3.92	1.01	.96	.18
29. Is unusually selfless, always putting the wishes of others first.	350	.482	3.41	3.44	.94	1.04	.03
64. Is unusually sensitive to the needs of others.	359	.447	3.71	3.84	1.04	.99	.13
20. Is known for an exceptionally caring manner with people.	005	.670	3.74	4.00	.96	.87	.29
68. Takes great joy in caring for others.	005	.561	3.79	4.14	.93	.84	.40
12. Loves helping others.	011	.552	4.08	4.34	.86	.76	.32
<b>Warm (30°)</b>	<b>24</b>	<b>.849</b>	<b>3.96</b>	<b>4.15</b>	<b>.66</b>	<b>.57</b>	<b>.32</b>
49. Is good-natured and cheerful toward almost everyone.	015	.724	3.93	4.21	.89	.78	.34
33. Makes others feel good.	022	.588	3.99	4.21	.86	.66	.30
04. Is an unusually warm, friendly type of person.	024	.478	3.97	4.07	.99	.90	.11
61. Takes a strong interest in others.	024	.524	3.91	4.09	.81	.77	.23
22. Is an extremely neighborly, approachable type of person.	025	.646	3.92	4.00	.96	.93	.09
43. Enjoys meeting people.	035	.624	4.06	4.32	.84	.83	.31
<b>Extraverted (60°)</b>	<b>57</b>	<b>.877</b>	<b>3.60</b>	<b>3.68</b>	<b>.82</b>	<b>.86</b>	<b>.09</b>
25. Loves talking to almost anyone.	044	.635	3.69	3.81	1.09	1.13	.11
46. Tends to radiate energy and enthusiasm.	049	.710	3.69	3.88	.94	1.00	.19
01. Tends to be very lively.	054	.630	4.01	4.07	.89	.77	.08
54. Loves mixing socially, a born extravert.	060	.777	3.41	3.53	1.21	1.16	.10
37. Tends to be extremely outgoing.	062	.751	3.48	3.61	1.17	1.18	.11
62. Is the life of the party.	070	.692	3.35	3.19	1.09	1.12	-.14

**Note:** Based on Sample D data, Men, N=142; Women, N=338. Column labels are Vector Length (VL) and Mean Gender Difference (GDiff). Values for Angle and VL are polar coordinates computed from the pair of IPQ DOM and LOV factor score correlations with each IPQ item and duodecant scale score. Angles in braces are the expected angular locations of the respective duodecant scales in a duodecant circumplex model with equal spacing.

Table 2.

Comparative fit of IPQ dodecant intercorrelations to an ideal circulant matrix

Measure	Sample	N	$\chi^2$	MSR
IASR	Normative	3,101	660.6	.0037
IPQ	Sample A	563	697.9	.0043
IAS	Wiggins (1979) Sample C	132	54.6	.0053
IIP	Wiggins & Pincus (1990)	581	165.5	.0057
ICL	Lorr & NcNair (1963)	200	131.7	.0224
ICL	Rinn (1965)	350	241.9	.0194

Note: Column labels are chi-square ( $\chi^2$ ), mean squared residual (MSR).

Table 3.

Convergence of IPQ factors with interpersonal trait dimensions proposed by other investigators

			<u>IPQ factor:</u>			
			<i>Wiggins (1995)</i> rotation:	<i>Costa &amp; McCrae (1992)</i> rotation:	<i>Tellegen (1982)</i> rotation:	
Sample N			DOM LOV	EXT AGR	POT CLO	
<u>Measure:</u>						
IAS DOM	A	552	<b>86</b> -04	74 -48	77 46	
IAS LOV	A	552	11 <b>80</b>	41 64	-30 69	
TDA Surgency	B	305	<b>84</b> 19	84 -25	61 60	
TDA Agreeableness	B	305	02 <b>77</b>	32 64	-32 65	
BFI Extraversion	B	163	<b>82</b> 13	<b>82</b> -32	64 58	
BFI Agreeableness	B	163	-18 <b>71</b>	14 70	-49 53	
BFI Extraversion	D	473	79 28	<b>81</b> -15	54 62	
BFI Agreeableness	D	473	-06 <b>78</b>	34 71	-45 64	
EPQ Extraversion	A	552	78 34	<b>85</b> -09	47 72	
NEO-PIR Extraversion	A	552	77 39	<b>87</b> -07	47 76	
NEO-PIR Agreeableness	A	552	-22 73	09 <b>76</b>	57 43	
NEO-FFI Extraversion	B	305	66 47	<b>81</b> 07	34 76	
NEO-FFI Agreeableness	B	305	-12 75	21 <b>73</b>	-49 55	
NCS Extraversion	C <sup>1</sup>	379	61 36	<b>70</b> 00	34 63	
NCS Agreeableness	C <sup>1</sup>	379	-18 53	07 <b>55</b>	-41 32	
MPQ Potency	A	552	<b>79</b> -17	61 -54	<b>79</b> 28	
MPQ Closeness	A	552	44 52	67 15	14 <b>72</b>	
IIP DOM	A	552	68 -32	45 -66	<b>77</b> 10	
IIP LOV	A	552	20 67	47 49	-17 <b>67</b>	
PAI Dominance	A	552	<b>74</b> 09	56 -45	71 27	
PAI Warmth	A	552	52 61	73 26	14 <b>83</b>	
HPI Ambition	A	552	<b>74</b> 07	60 -42	67 32	
HPI Sociability	A	552	65 14	<b>67</b> -21	50 50	
HPI Likeability	A	552	33 58	56 31	00 <b>68</b>	

Note: Decimals omitted. The highest absolute correlation per row is presented in boldfaced italic. Boxes highlight which IPQ factor alignment corresponds most closely to each measure.

For example, the IPQ rotation best corresponding to the IIP DOM and LOV factors is the

"Tellegen" rotation. <sup>1</sup>NCS data were collected four months prior to the IPQ data (see Method).

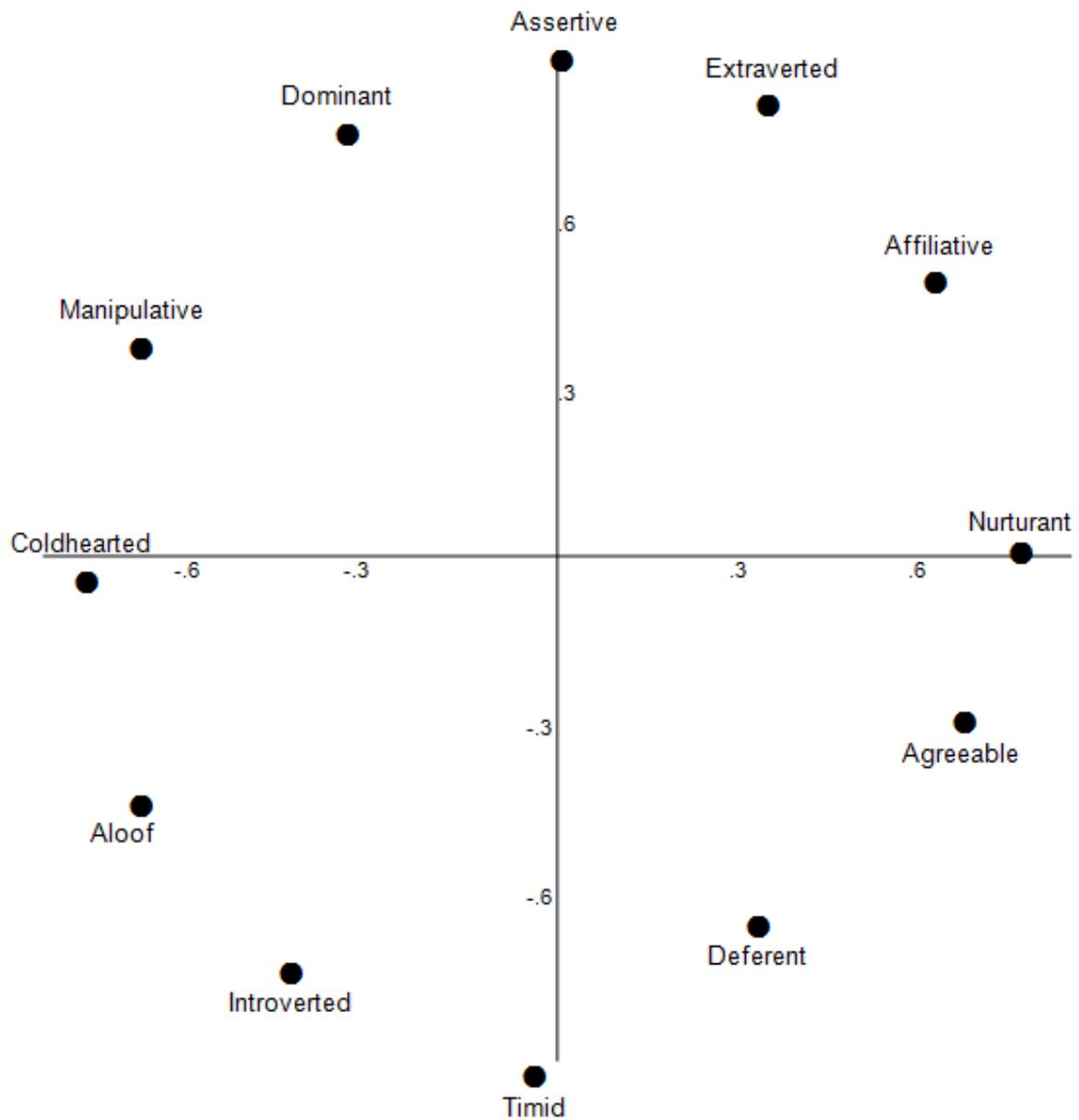
Table 4.

Correlation of IPQ facets with NEO-PIR facets of Agreeableness (A) and Extraversion (E)

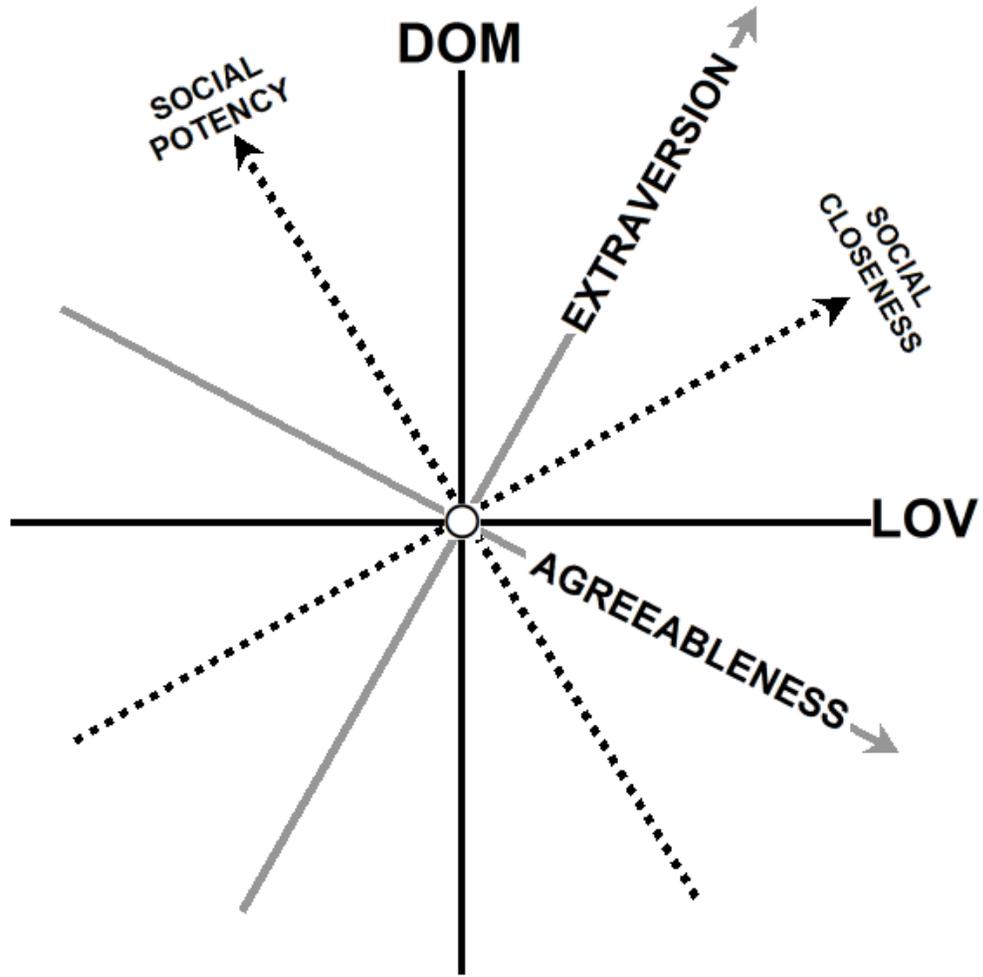
<u>NEO-PIR Facets</u>	<u>IPQ Facet scales<sup>1</sup></u>					
	<u>Dom-Def</u>	<u>Asr-Tim</u>	<u>Ext-Int</u>	<u>Aff-Alo</u>	<u>Nur-Col</u>	<u>Agr-Man</u>
	<u>I+II-</u>	<u>I+I+</u>	<u>I+II+</u>	<u>II+I+</u>	<u>II+II+</u>	<u>II+I-</u>
A-Meekness	<b>-.58</b>	-.26	-.01	.16	.44	<b>.58</b>
E-Assertiveness	.68	<b>.82</b>	.59	.34	.00	-.31
E-Activity-level	.44	<b>.58</b>	.51	.31	.07	-.13
E-Excitement-Seeking	.26	.42	<b>.50</b>	.39	.10	-.15
E-Positive Emotions	.13	.43	<b>.60</b>	.56	.39	.12
E-Gregariousness	.19	.48	<b>.74</b>	<b>.74</b>	.30	.05
E-Warmth	.07	.42	.71	<b>.73</b>	.54	.23
A-Altruism	-.26	.09	.35	.47	<b>.70</b>	.52
A-Tendermindedness	-.30	-.10	.09	.26	<b>.47</b>	.45
A-Trust	-.12	.10	.30	.38	<b>.43</b>	.35
A-Straightforwardness	-.48	-.22	.05	.17	.45	<b>.67</b>
A-Modesty	-.42	-.33	-.09	.04	.27	<b>.43</b>

Note: Sample A, N=553. Highest absolute correlation in each row is presented in boldface.

<sup>1</sup>Labels immediately below each IPQ facet label refer to the AB5C IPIP facet (see Goldberg et al, 2004) most closely corresponding to the respective IPQ facet.

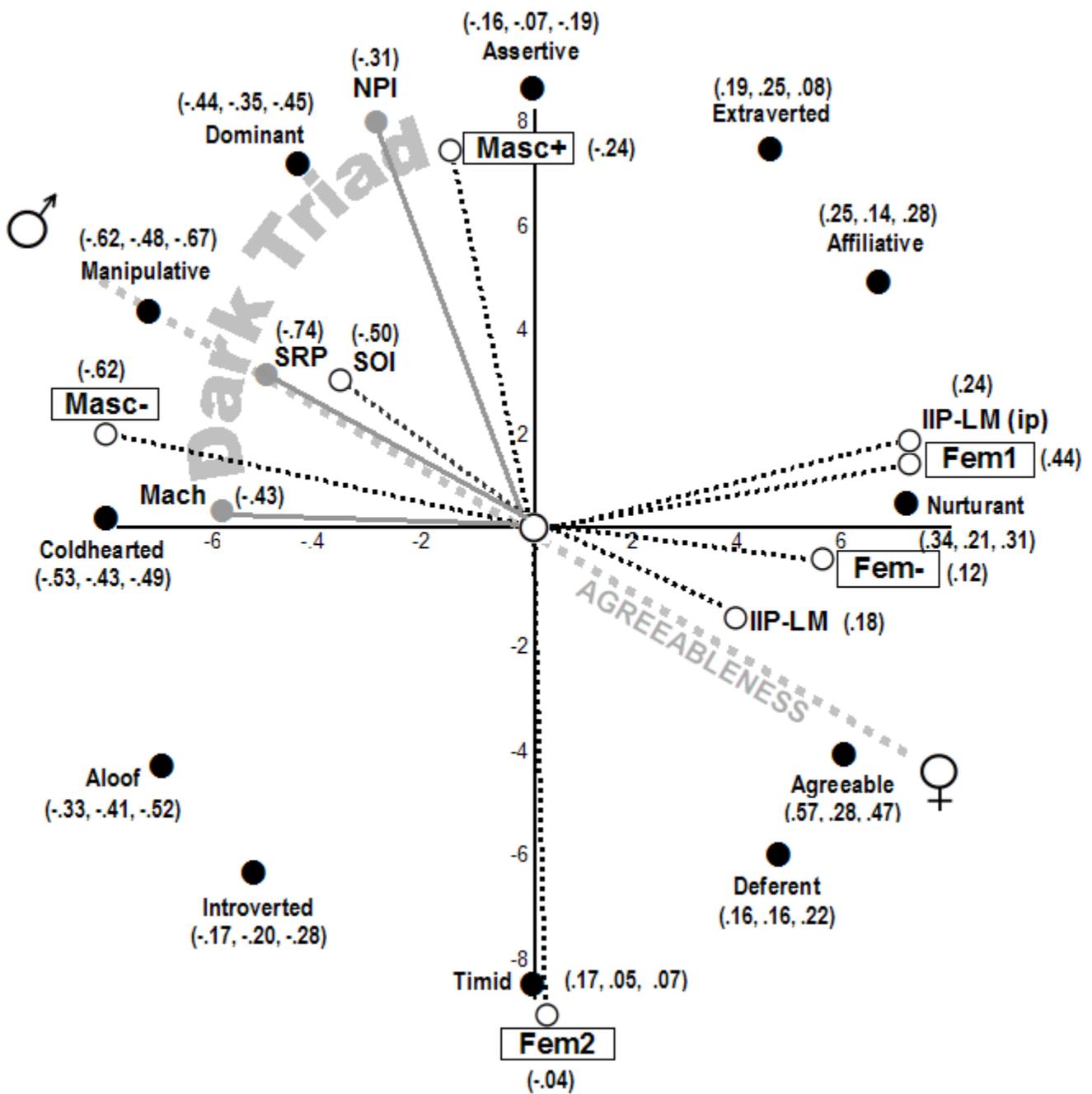


**Figure 1.** Plot of factor loadings for IPQ-L dodecant scales, N=1,352. The plotted values above are factor loadings of each duodecant scale on the first two principal components extracted from IPQ duodecant scale intercorrelations, following rotation of the two components to a least squares fit with an ideal circumplex target matrix corresponding to Wiggins (1979; 1995) interpersonal circumplex model. “IPQ-L” refers to an early version of the IPQ that used full sentences as items, in contrast to the revised current version which uses verbal phrases as items.

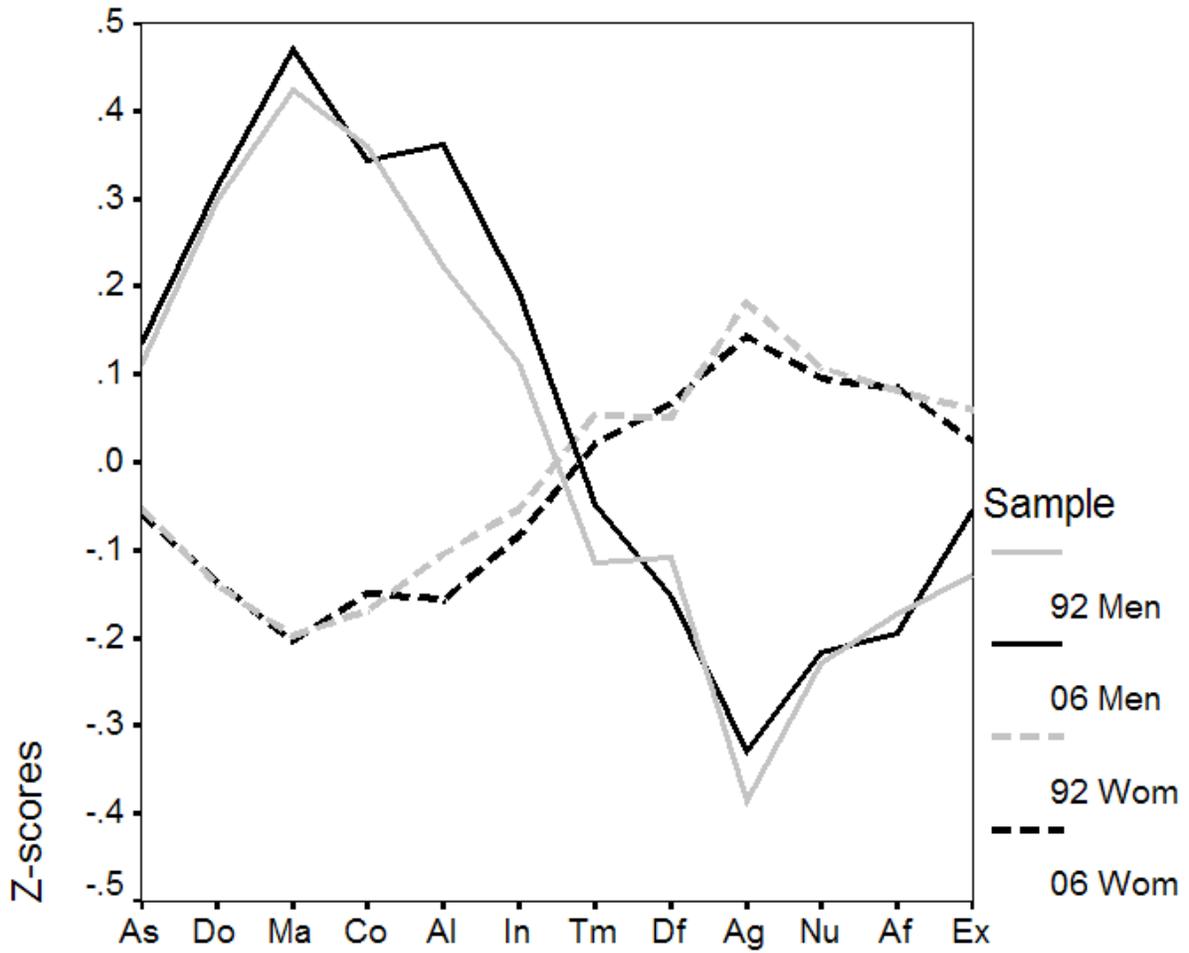


**Figure 2.** Three rotations of interpersonal circumplex axes, corresponding to Wiggins' (1995) DOM and LOV factors, Costa & McCrae's (1992) Extraversion and Agreeableness factors, and Tellegen's (1992) Social Potency and Social Closeness factors.





**Figure 4.** Gender differences (Cohen's *d*, presented inside the braces) and disattenuated IPQ DOM and LOV projections of selected gender stereotypic interpersonal traits, samples A, C, and D.



**Figure 5.** Stability of gender differences in IPQ dodecant scores across a fourteen year interval.

# IPQ

**Instructions:** Listed below are different phrases used to describe people. For each phrase, circle the number that most accurately and honestly describes you. Interpret the scale as shown below. Please do not skip any. If you feel unclear about a phrase, simply make as good a guess as you can.

	1	2	3	4	5
	Strongly Disagree	Disagree A little	Neither Agree nor Disagree	Agree A little	Strongly Agree
01. I tend to be very lively.....	1	2	3	4	5
02. I'm capable of walking over people who get in the way.....	1	2	3	4	5
03. I'm not good at trying to influence people. ....	1	2	3	4	5
04. I'm an unusually warm, friendly type of person. ....	1	2	3	4	5
05. I avoid having power over other people. ....	1	2	3	4	5
06. I'm not especially cheery toward people.....	1	2	3	4	5
07. I'm naturally leader-like, a born leader.....	1	2	3	4	5
08. I'm likely to control others rather than let others control me.....	1	2	3	4	5
09. I'm especially careful never to hurt anyone's feelings.....	1	2	3	4	5
10. I have a cold manner of dealing with people at times.....	1	2	3	4	5
11. I'm very vocal and outspoken by nature.....	1	2	3	4	5
12. I love helping others.....	1	2	3	4	5
13. I usually want to avoid social situations.....	1	2	3	4	5
14. I'm willing to be ruthless at times to get what I want. ....	1	2	3	4	5
15. By nature, I'm not very forceful or dominant. ....	1	2	3	4	5
16. I back down first in confrontations to avoid conflict. ....	1	2	3	4	5
17. I'm somewhat frosty or indifferent to people at times. ....	1	2	3	4	5
18. I have a strong personality that at times intimidates people. ....	1	2	3	4	5
19. I have an insensitive manner with people at times. ....	1	2	3	4	5
20. I'm known for an exceptionally caring manner with people. ....	1	2	3	4	5
21. I prefer to give the limelight to others in social situations. ....	1	2	3	4	5

22. I'm an extremely neighborly, approachable type of person.....	1	2	3	4	5
23. I could never be domineering toward others. ....	1	2	3	4	5
24. I rarely open up to people, not even to friends. ....	1	2	3	4	5
25. I love talking to almost anyone. ....	1	2	3	4	5
26. I'm extremely unlikely to be manipulative or calculating. ....	1	2	3	4	5
27. I feel little concern for others. ....	1	2	3	4	5
28. I'm very assertive by nature.....	1	2	3	4	5
29. I'm unusually selfless, always putting the wishes of others first. ....	1	2	3	4	5
30. I prefer to stay well in the background at a party.....	1	2	3	4	5
31. I'm sly and cunning in getting what I want from people. ....	1	2	3	4	5
32. I tend to be the quiet one in a group. ....	1	2	3	4	5
33. I make others feel good. ....	1	2	3	4	5
34. I find it difficult to behave aggressively toward anyone. ....	1	2	3	4	5
35. I dislike having a lot of people around me. ....	1	2	3	4	5
36. I'm commanding and forceful in social situations. ....	1	2	3	4	5
37. I tend to be extremely outgoing. ....	1	2	3	4	5
38. I would not take advantage of people to get what I want.....	1	2	3	4	5
39. I love being in the spotlight.....	1	2	3	4	5
40. I'm not particularly fond of talking to people. ....	1	2	3	4	5
41. I find it easy to manipulate others to my advantage. ....	1	2	3	4	5
42. I shy away from positions of leadership.....	1	2	3	4	5
43. I enjoy meeting people.....	1	2	3	4	5
44. I'm an extremely gentle, unaggressive person. ....	1	2	3	4	5
45. I tend not to like that many people. ....	1	2	3	4	5
46. I tend to radiate energy and enthusiasm.....	1	2	3	4	5
47. I might be considered a bit coldhearted. ....	1	2	3	4	5

48. I tend to take charge when around others. ....	1	2	3	4	5
49. I'm good-natured and cheerful toward almost everyone.....	1	2	3	4	5
50. By nature, I'm not very sociable.....	1	2	3	4	5
51. I don't mind being rude to get what I want. ....	1	2	3	4	5
52. I avoid being the center of attention in social situations.....	1	2	3	4	5
53. I like to remain aloof, keep my distance from others. ....	1	2	3	4	5
54. I love to mix socially; I'm a born extravert. ....	1	2	3	4	5
55. I can be callous to people at times.....	1	2	3	4	5
56. I like to be top dog. ....	1	2	3	4	5
57. I rarely smile. ....	1	2	3	4	5
58. I love to be the center of attention.....	1	2	3	4	5
59. I'm easy to push around.....	1	2	3	4	5
60. I'm quiet around strangers.....	1	2	3	4	5
61. I take a strong interest in others.....	1	2	3	4	5
62. I am the life of the party. ....	1	2	3	4	5
63. I impose my will on others. ....	1	2	3	4	5
64. I'm unusually sensitive to the needs of others. ....	1	2	3	4	5
65. I often feel uncomfortable around others. ....	1	2	3	4	5
66. I'm not really interested in others. ....	1	2	3	4	5
67. I avoid offending others. ....	1	2	3	4	5
68. I take great joy in caring for others. ....	1	2	3	4	5
69. I avoid imposing on others.....	1	2	3	4	5
70. I take advantage of others. ....	1	2	3	4	5
71. I'm self-effacing; I easily give up power to others. ....	1	2	3	4	5
72. I'm not good at deceiving people.....	1	2	3	4	5

## IPQ-S

**Instructions:** Listed below are different phrases used to describe people. For each phrase, circle the number that most accurately and honestly describes you. Interpret the scale as shown below. Please do not skip any. If you feel unclear about a phrase, simply make as good a guess as you can.

	1	2	3	4	5
	Strongly Disagree	Disagree A little	Neither Agree nor Disagree	Agree A little	Strongly Agree
01. Tend to be very lively. ....	1	2	3	4	5
02. Am capable of walking over people who get in the way. ....	1	2	3	4	5
03. Am not good at trying to influence people. ....	1	2	3	4	5
04. Am an unusually warm, friendly type of person. ....	1	2	3	4	5
05. Avoid having power over other people. ....	1	2	3	4	5
06. Am not especially cheery toward people. ....	1	2	3	4	5
07. Am naturally leader-like, a born leader. ....	1	2	3	4	5
08. Am likely to control others rather than let others control me. ....	1	2	3	4	5
09. Am especially careful never to hurt anyone's feelings. ....	1	2	3	4	5
10. Have a cold manner of dealing with people at times. ....	1	2	3	4	5
11. Am very vocal and outspoken by nature. ....	1	2	3	4	5
12. Love helping others. ....	1	2	3	4	5
13. Usually want to avoid social situations. ....	1	2	3	4	5
14. Am willing to be ruthless at times to get what I want. ....	1	2	3	4	5
15. By nature, am not very forceful or dominant. ....	1	2	3	4	5
16. Back down first in confrontations to avoid conflict. ....	1	2	3	4	5
17. Am sometimes a bit frosty or indifferent to people. ....	1	2	3	4	5
18. Have a strong personality that at times intimidates people. ....	1	2	3	4	5
19. Have an insensitive manner with people at times. ....	1	2	3	4	5
20. Am known for an exceptionally caring manner with people. ....	1	2	3	4	5
21. Prefer to give the limelight to others in social situations. ....	1	2	3	4	5

22. Am an extremely neighborly, approachable type of person. ....	1	2	3	4	5
23. Could never be domineering toward others.....	1	2	3	4	5
24. Rarely open up to people, not even to friends. ....	1	2	3	4	5
25. Love talking to almost anyone. ....	1	2	3	4	5
26. Am extremely unlikely to be manipulative or calculating.....	1	2	3	4	5
27. Feel little concern for others.....	1	2	3	4	5
28. Am very assertive by nature. ....	1	2	3	4	5
29. Am unusually selfless, always putting the wishes of others first.....	1	2	3	4	5
30. Prefer to stay well in the background at a party.....	1	2	3	4	5
31. Am sly and cunning in getting what I want from people. ....	1	2	3	4	5
32. Tend to be the quiet one in a group. ....	1	2	3	4	5
33. Make others feel good. ....	1	2	3	4	5
34. Find it difficult to behave aggressively toward anyone. ....	1	2	3	4	5
35. Dislike having a lot of people around me.....	1	2	3	4	5
36. Am commanding and forceful in social situations. ....	1	2	3	4	5
37. Tend to be extremely outgoing.....	1	2	3	4	5
38. Would not take advantage of people to get what I want.....	1	2	3	4	5
39. Love being in the spotlight. ....	1	2	3	4	5
40. Am not particularly fond of talking to people.....	1	2	3	4	5
41. Find it easy to manipulate others to my advantage. ....	1	2	3	4	5
42. Shy away from positions of leadership. ....	1	2	3	4	5
43. Enjoy meeting people. ....	1	2	3	4	5
44. Am an extremely gentle, unaggressive person.....	1	2	3	4	5
45. Tend not to like that many people.....	1	2	3	4	5
46. Tend to radiate energy and enthusiasm. ....	1	2	3	4	5
47. Might be considered a bit coldhearted.....	1	2	3	4	5

48. Tend to take charge when around others.....	1	2	3	4	5
49. Am good-natured and cheerful toward almost everyone. ....	1	2	3	4	5
50. By nature, am not very sociable.....	1	2	3	4	5
51. Don't mind being rude to get what I want.....	1	2	3	4	5
52. Avoid being the center of attention in social situations. ....	1	2	3	4	5
53. Like to remain aloof, keep my distance from others. ....	1	2	3	4	5
54. Love mixing socially, a born extravert.....	1	2	3	4	5
55. Can be callous to people at times. ....	1	2	3	4	5
56. Like to be top dog.....	1	2	3	4	5
57. Rarely smile. ....	1	2	3	4	5
58. Love to be the center of attention. ....	1	2	3	4	5
59. Am easy to push around. ....	1	2	3	4	5
60. Am quiet around strangers. ....	1	2	3	4	5
61. Take a strong interest in others. ....	1	2	3	4	5
62. Am the life of the party. ....	1	2	3	4	5
63. Impose my will on others.....	1	2	3	4	5
64. Am unusually sensitive to the needs of others.....	1	2	3	4	5
65. Often feel uncomfortable around others. ....	1	2	3	4	5
66. Am not really interested in others. ....	1	2	3	4	5
67. Avoid offending others.....	1	2	3	4	5
68. Take great joy in caring for others. ....	1	2	3	4	5
69. Avoid imposing on others. ....	1	2	3	4	5
70. Take advantage of others.....	1	2	3	4	5
71. Easily give up power to others, self-effacing. ....	1	2	3	4	5
72. Am not good at deceiving people. ....	1	2	3	4	5

## IPQ-R

**Instructions:** Listed below are different phrases used to describe people. For each phrase, circle the number that most accurately and honestly describes the person you are rating. Interpret the scale as shown below. Please do not skip any items. If you feel unclear about a phrase, simply make as good a guess as you can.

	1	2	3	4	5
	Strongly Disagree	Disagree A little	Neither Agree nor Disagree	Agree A little	Strongly Agree
01. Tends to be very lively.....	1	2	3	4	5
02. Is capable of walking over people who get in the way. ....	1	2	3	4	5
03. Is not good at trying to influence people.....	1	2	3	4	5
04. Is an unusually warm, friendly type of person.....	1	2	3	4	5
05. Avoids having power over other people.....	1	2	3	4	5
06. Is not especially cheery toward people.....	1	2	3	4	5
07. Is naturally leader-like, a born leader. ....	1	2	3	4	5
08. Is likely to control others rather than let others control him/her. ....	1	2	3	4	5
09. Is especially careful never to hurt anyone's feelings. ....	1	2	3	4	5
10. Has a cold manner of dealing with people at times.....	1	2	3	4	5
11. Is very vocal and outspoken by nature. ....	1	2	3	4	5
12. Loves helping others. ....	1	2	3	4	5
13. Usually wants to avoid social situations.....	1	2	3	4	5
14. Is willing to be ruthless at times to get what he/she wants. ....	1	2	3	4	5
15. By nature, is not very forceful or dominant.....	1	2	3	4	5
16. Backs down first in confrontations to avoid conflict.....	1	2	3	4	5
17. Is sometimes a bit frosty or indifferent to people.....	1	2	3	4	5
18. Has a strong personality that at times intimidates people.....	1	2	3	4	5
19. Has an insensitive manner with people at times.....	1	2	3	4	5
20. Is known for an exceptionally caring manner with people.....	1	2	3	4	5
21. Prefers to give the limelight to others in social situations.....	1	2	3	4	5

22. Is an extremely neighborly, approachable type of person. ....	1	2	3	4	5
23. Could never be domineering toward others.....	1	2	3	4	5
24. Rarely opens up to people, not even to friends.....	1	2	3	4	5
25. Loves talking to almost anyone.....	1	2	3	4	5
26. Is extremely unlikely to be manipulative or calculating.....	1	2	3	4	5
27. Feels little concern for others. ....	1	2	3	4	5
28. Is very assertive by nature. ....	1	2	3	4	5
29. Is unusually selfless, always putting the wishes of others first.....	1	2	3	4	5
30. Prefers to stay well in the background at a party. ....	1	2	3	4	5
31. Is sly and cunning in getting what he/she wants from people. ....	1	2	3	4	5
32. Tends to be the quiet one in a group.....	1	2	3	4	5
33. Makes others feel good.....	1	2	3	4	5
34. Finds it difficult to behave aggressively toward anyone.....	1	2	3	4	5
35. Dislikes having a lot of people around him/her. ....	1	2	3	4	5
36. Is commanding and forceful in social situations. ....	1	2	3	4	5
37. Tends to be extremely outgoing. ....	1	2	3	4	5
38. Would not take advantage of people to get what she/he wants. ....	1	2	3	4	5
39. Loves being in the spotlight. ....	1	2	3	4	5
40. Is not particularly fond of talking to people.....	1	2	3	4	5
41. Finds it easy to manipulate others to his/her advantage. ....	1	2	3	4	5
42. Shies away from positions of leadership.....	1	2	3	4	5
43. Enjoys meeting people. ....	1	2	3	4	5
44. Is an extremely gentle, unaggressive person. ....	1	2	3	4	5
45. Tends not to like that many people. ....	1	2	3	4	5
46. Tends to radiate energy and enthusiasm.....	1	2	3	4	5
47. Might be considered a bit coldhearted.....	1	2	3	4	5

48. Tends to take charge when around others. ....	1	2	3	4	5
49. Is good-natured and cheerful toward almost everyone. ....	1	2	3	4	5
50. By nature, is not very sociable. ....	1	2	3	4	5
51. Doesn't mind being rude to get what he/she wants. ....	1	2	3	4	5
52. Avoids being the center of attention in social situations.....	1	2	3	4	5
53. Likes to remain aloof, keep his/her distance from others. ....	1	2	3	4	5
54. Loves mixing socially, a born extravert. ....	1	2	3	4	5
55. Can be callous to people at times. ....	1	2	3	4	5
56. Likes to be top dog. ....	1	2	3	4	5
57. Rarely smiles.....	1	2	3	4	5
58. Loves to be the center of attention. ....	1	2	3	4	5
59. Is easy to push around. ....	1	2	3	4	5
60. Is quiet around strangers. ....	1	2	3	4	5
61. Takes a strong interest in others.....	1	2	3	4	5
62. Is the life of the party.....	1	2	3	4	5
63. Imposes her/his will on others.....	1	2	3	4	5
64. Is unusually sensitive to the needs of others.....	1	2	3	4	5
65. Often feels uncomfortable around others.....	1	2	3	4	5
66. Is not really interested in others.....	1	2	3	4	5
67. Avoids offending others.....	1	2	3	4	5
68. Takes great joy in caring for others.....	1	2	3	4	5
69. Avoids imposing on others.....	1	2	3	4	5
70. Takes advantage of others.....	1	2	3	4	5
71. Easily gives up power to others, self-effacing.....	1	2	3	4	5
72. Is not good at deceiving people.....	1	2	3	4	5

Listing of IPQ items without response scale text (e.g., for importing IPQ items into online surveys).

**First person version (for self-reports)**

Tend to be very lively.  
Am capable of walking over people who get in the way.  
Am not good at trying to influence people.  
Am an unusually warm, friendly type of person.  
Avoid having power over other people.  
Am not especially cheery toward people.  
Am naturally leader-like, a born leader.  
Am likely to control others rather than let others control me.  
Am especially careful never to hurt anyone's feelings.  
Have a cold manner of dealing with people at times.  
Am very vocal and outspoken by nature.  
Love helping others.  
Usually want to avoid social situations.  
Am willing to be ruthless at times to get what I want.  
By nature, am not very forceful or dominant.  
Back down first in confrontations to avoid conflict.  
Am sometimes a bit frosty or indifferent to people.  
Have a strong personality that at times intimidates people.  
Have an insensitive manner with people at times.  
Am known for an exceptionally caring manner with people.  
Prefer to give the limelight to others in social situations.  
Am an extremely neighborly, approachable type of person.  
Could never be domineering toward others.  
Rarely opens up to people, not even to friends.  
Love talking to almost anyone.  
Am extremely unlikely to be manipulative or calculating.  
Feel little concern for others.  
Am very assertive by nature.  
Am unusually selfless, always putting the wishes of others first.  
Prefer to stay well in the background at a party.  
Am sly and cunning in getting what I want from people.  
Tend to be the quiet one in a group.  
Make others feel good.  
Find it difficult to behave aggressively toward anyone.  
Dislike having a lot of people around me.  
Am commanding and forceful in social situations.  
Tend to be extremely outgoing.  
Would not take advantage of people to get what I want.  
Loves being in the spotlight.  
Am not particularly fond of talking to people.  
Find it easy to manipulate others to my advantage.  
Shy away from positions of leadership.  
Enjoy meeting people.  
Am an extremely gentle, unaggressive person.  
Tend not to like that many people.  
Tend to radiate energy and enthusiasm.  
Might be considered a bit coldhearted.  
Tend to take charge when around others.  
Am good-natured and cheerful toward almost everyone.  
By nature, am not very sociable.  
Don't mind being rude to get what I want.  
Avoid being the center of attention in social situations.  
Like to remain aloof, keeping my distance from others.  
Love mixing socially, a born extravert.

Can be callous to people at times.  
Like to be top dog  
Rarely smile.  
Love to be the center of attention.  
Am easy to push around.  
Am quiet around strangers.  
Take a strong interest in others.  
Am the life of the party.  
Impose my will on others.  
Am unusually sensitive to the needs of others.  
Often feel uncomfortable around others.  
Am not really interested in others.  
Avoid offending others.  
Take great joy in caring for others.  
Avoid imposing on others.  
Take advantage of others.  
Easily give up power to others, self-effacing.  
Am not good at deceiving people.

### **3<sup>rd</sup> person version (for observer ratings)**

Tends to be very lively.  
Is capable of walking over people who get in the way.  
Is not good at trying to influence people.  
Is an unusually warm, friendly type of person.  
Avoids having power over other people.  
Is not especially cheery toward people.  
Is naturally leader-like, a born leader.  
Is likely to control others rather than let others control him/her.  
Is especially careful never to hurt anyone's feelings.  
Has a cold manner of dealing with people at times.  
Is very vocal and outspoken by nature.  
Loves helping others.  
Usually wants to avoid social situations.  
Is willing to be ruthless at times to get what he/she wants.  
By nature, is not very forceful or dominant.  
Backs down first in confrontations to avoid conflict.  
Is sometimes a bit frosty or indifferent to people.  
Has a strong personality that at times intimidates people.  
Has an insensitive manner with people at times.  
Is known for an exceptionally caring manner with people.  
Prefers to give the limelight to others in social situations.  
Is an extremely neighborly, approachable type of person.  
Could never be domineering toward others.  
Rarely opens up to people, not even to friends.  
Loves talking to almost anyone.  
Is extremely unlikely to be manipulative or calculating.  
Feels little concern for others.  
Is very assertive by nature.  
Is unusually selfless, always putting the wishes of others first.  
Prefers to stay well in the background at a party.  
Is sly and cunning in getting what he/she wants from people.  
Tends to be the quiet one in a group.  
Makes others feel good.  
Finds it difficult to behave aggressively toward anyone.  
Dislikes having a lot of people around him/her.  
Is commanding and forceful in social situations.  
Tends to be extremely outgoing.

Would not take advantage of people to get what she/he wants.  
Loves being in the spotlight.  
Is not particularly fond of talking to people.  
Finds it easy to manipulate others to his/her advantage.  
Shies away from positions of leadership.  
Enjoys meeting people.  
Is an extremely gentle, unaggressive person.  
Tends not to like that many people.  
Tends to radiate energy and enthusiasm.  
Might be considered a bit coldhearted.  
Tends to take charge when around others.  
Is good-natured and cheerful toward almost everyone.  
By nature, is not very sociable.  
Doesn't mind being rude to get what he/she wants.  
Avoids being the center of attention in social situations.  
Likes to remain aloof, keeping his/her distance from others.  
Loves mixing socially, a born extravert.  
Can be callous to people at times.  
Likes to be top dog.  
Rarely smiles.  
Loves to be the center of attention.  
Is easy to push around.  
Is quiet around strangers.  
Takes a strong interest in others.  
Is the life of the party.  
Imposes her/his will on others.  
Is unusually sensitive to the needs of others.  
Often feels uncomfortable around others.  
Is not really interested in others.  
Avoids offending others.  
Takes great joy in caring for others.  
Avoids imposing on others.  
Takes advantage of others.  
Easily gives up power to others, self-effacing.  
Is not good at deceiving people.

## IPQ Scoring Key

Note: Values in braces are Coefficient Alpha estimates of reliability, based on a 2004 University of Winnipeg sample of Introductory student volunteers ( $N=480$ ).

### 90° Assertive ( $\alpha = .81$ )

- 07 Am naturally leader-like, a born leader.
- 11 Am very vocal and outspoken by nature.
- 39 Loves being in the spotlight.
- 48 Tend to take charge when around others.
- 56 Like to be top dog
- 58 Love to be the center of attention.

### 130° Dominant ( $\alpha = .76$ )

- 02 Am capable of walking over people who get in the way.
- 08 Am likely to control others rather than let others control me.
- 18 Have a strong personality that at times intimidates people.
- 28 Am very assertive by nature.
- 36 Am commanding and forceful in social situations.
- 63 Impose my will on others.

### 150° Manipulative ( $\alpha = .82$ )

- 14 Am willing to be ruthless at times to get what I want.
- 31 Am sly and cunning in getting what I want from people.
- 41 Find it easy to manipulate others to my advantage.
- 51 Don't mind being rude to get what I want.
- 55 Can be callous to people at times.
- 70 Take advantage of others.

### 180° Coldhearted ( $\alpha = .73$ )

- 10 Have a cold manner of dealing with people at times.
- 17 Am sometimes a bit frosty or indifferent to people.
- 19 Have an insensitive manner with people at times.
- 27 Feel little concern for others.
- 45 Tend not to like that many people.
- 47 Might be considered a bit coldhearted.

### 210° Aloof ( $\alpha = .74$ )

- 06 Am not especially cheery toward people.
- 24 Rarely opens up to people, not even to friends.
- 40 Am not particularly fond of talking to people.
- 53 Like to remain aloof, keeping my distance from others.
- 57 Rarely smile.
- 66 Am not really interested in others.

### 240° Introverted ( $\alpha = .87$ )

- 13 Usually want to avoid social situations.
- 30 Prefer to stay well in the background at a party.
- 35 Dislike having a lot of people around me.
- 50 By nature, am not very sociable.
- 60 Am quiet around strangers.
- 65 Often feel uncomfortable around others.

### **270° Timid ( $\alpha = .73$ )**

- 03 Am not good at trying to influence people.
- 21 Prefer to give the limelight to others in social situations.
- 32 Tend to be the quiet one in a group.
- 42 Shy away from positions of leadership.
- 52 Avoid being the center of attention in social situations.
- 71 Easily give up power to others, self-effacing.

### **300° Deferent ( $\alpha = .70$ )**

- 05 Avoid having power over other people.
- 15 By nature, am not very forceful or dominant.
- 16 Back down first in confrontations to avoid conflict.
- 23 Could never be domineering toward others.
- 34 Find it difficult to behave aggressively toward anyone.
- 59 Am easy to push around.

### **330° Agreeable ( $\alpha = .65$ )**

- 26 Am extremely unlikely to be manipulative or calculating.
- 38 Would not take advantage of people to get what I want.
- 44 Am an extremely gentle, unaggressive person.
- 67 Avoid offending others.
- 69 Avoid imposing on others.
- 72 Am not good at deceiving people.

### **00° Nurturant ( $\alpha = .76$ )**

- 09 Am especially careful never to hurt anyone's feelings.
- 12 Love helping others.
- 20 Am known for an exceptionally caring manner with people.
- 29 Am unusually selfless, always putting the wishes of others first.
- 64 Am unusually sensitive to the needs of others.
- 68 Take great joy in caring for others.

### **90° Warm ( $\alpha = .71$ )**

- 04 Am an unusually warm, friendly type of person.
- 22 Am an extremely neighborly, approachable type of person.
- 33 Make others feel good.
- 43 Enjoy meeting people.
- 49 Am good-natured and cheerful toward almost everyone.
- 61 Take a strong interest in others.

### **90° Extraverted ( $\alpha = .84$ )**

- 25 Love talking to almost anyone.
- 46 Tend to radiate energy and enthusiasm.
- 01 Tend to be very lively.
- 54 Love mixing socially, a born extravert.
- 37 Tend to be extremely outgoing.
- 62 Am the life of the party.

**\*SPSS Scoring Syntax.**

```
*=====*.
*===== I P Q   S C O R I N G   =====*.
*=====*
```

```
*=====*.
*===== COMPUTE DUODECANT RAW SCORES =====*.
*=====*
```

```
compute ass= mean.5(ipq07,ipq11,ipq39,ipq48,ipq56,ipq58).
compute dom= mean.5(ipq02,ipq08,ipq18,ipq28,ipq36,ipq63).
compute man= mean.5(ipq14,ipq31,ipq41,ipq51,ipq55,ipq70).
compute col= mean.5(ipq10,ipq17,ipq19,ipq27,ipq45,ipq47).
compute alo= mean.5(ipq06,ipq24,ipq40,ipq53,ipq57,ipq66).
compute int= mean.5(ipq13,ipq30,ipq35,ipq50,ipq60,ipq65).
compute tim= mean.5(ipq03,ipq21,ipq32,ipq42,ipq52,ipq71).
compute def= mean.5(ipq05,ipq15,ipq16,ipq23,ipq34,ipq59).
compute agr= mean.5(ipq26,ipq38,ipq44,ipq67,ipq69,ipq72).
compute nur= mean.5(ipq09,ipq12,ipq20,ipq29,ipq64,ipq68).
compute wrm= mean.5(ipq04,ipq22,ipq33,ipq43,ipq49,ipq61).
compute ext= mean.5(ipq25,ipq46,ipq01,ipq54,ipq37,ipq62).
```

```
*=====*.
*===== COMPUTE DUODECANT T-SCORES =====*.
*=====*
```

```
*Define duodecant means.
```

```
compute assmn=3.1121.
compute dommn=2.9278.
compute manmn=2.6100.
compute colmn=2.3976.
compute alomn=2.3444.
compute intmn=2.0937.
compute timmn=2.7936.
compute defmn=2.9158.
compute agrmn=3.3055.
compute nurmn=3.6228.
compute wrmmn=3.6356.
compute extmn=3.5891.
```

```
*Define duodecant standard deviations.
```

```
compute assd=0.80218.
compute domsd=0.75204.
compute mansd=0.82987.
compute colsd=0.69410.
compute alosd=0.73733.
compute intsd=0.84562.
compute timsd=0.71626.
compute defsd=0.70050.
compute agrsd=0.71804.
compute nursd=0.61910.
compute wrmsd=0.61255.
compute extsd=0.77868.
```

\* Compute T-scores using norms defined above. Usually,  
\* T-scores are given a mean of 50, but we will use 40  
\* instead to improve the appearance of plotted IPQ scores.

```
compute tass= (((ass-assmn)/asssd))*10)+40.  
compute tdom= (((dom-dommn)/domsd))*10)+40.  
compute tman= (((man-manmn)/mansd))*10)+40.  
compute tcol= (((col-colmn)/colsd))*10)+40.  
compute talo= (((alo-alomn)/alosd))*10)+40.  
compute tint= (((int-intmn)/intsd))*10)+40.  
compute ttim= (((tim-timn)/timsd))*10)+40.  
compute tdef= (((def-defmn)/defsd))*10)+40.  
compute tagr= (((agr-agrnm)/agrsd))*10)+40.  
compute tnur= (((nur-nurmn)/nursd))*10)+40.  
compute twrm= (((wrm-wrmmn)/wrmsd))*10)+40.  
compute text= (((ext-extmn)/extsd))*10)+40.
```

\* Before computing circumplex dimension scores from the  
\* duodecant scores, a set of reverse-scored duodecant raw  
\* scores are created. A duplicate set of ipq item scores  
\* are first created, then these are reverse-scored. They  
\* will be used in the computation of dimension scores  
\* further below.

```
COMPUTE RIPQ01= IPQ01 .  
COMPUTE RIPQ02= IPQ02 .  
COMPUTE RIPQ03= IPQ03 .  
COMPUTE RIPQ04= IPQ04 .  
COMPUTE RIPQ05= IPQ05 .  
COMPUTE RIPQ06= IPQ06 .  
COMPUTE RIPQ07= IPQ07 .  
COMPUTE RIPQ08= IPQ08 .  
COMPUTE RIPQ09= IPQ09 .  
COMPUTE RIPQ10= IPQ10 .  
COMPUTE RIPQ11= IPQ11 .  
COMPUTE RIPQ12= IPQ12 .  
COMPUTE RIPQ13= IPQ13 .  
COMPUTE RIPQ14= IPQ14 .  
COMPUTE RIPQ15= IPQ15 .  
COMPUTE RIPQ16= IPQ16 .  
COMPUTE RIPQ17= IPQ17 .  
COMPUTE RIPQ18= IPQ18 .  
COMPUTE RIPQ19= IPQ19 .  
COMPUTE RIPQ20= IPQ20 .  
COMPUTE RIPQ21= IPQ21 .  
COMPUTE RIPQ22= IPQ22 .  
COMPUTE RIPQ23= IPQ23 .  
COMPUTE RIPQ24= IPQ24 .  
COMPUTE RIPQ25= IPQ25 .  
COMPUTE RIPQ26= IPQ26 .  
COMPUTE RIPQ27= IPQ27 .  
COMPUTE RIPQ28= IPQ28 .  
COMPUTE RIPQ29= IPQ29 .  
COMPUTE RIPQ30= IPQ30 .  
COMPUTE RIPQ31= IPQ31 .
```

```
COMPUTE RIPQ32= IPQ32 .
COMPUTE RIPQ33= IPQ33 .
COMPUTE RIPQ34= IPQ34 .
COMPUTE RIPQ35= IPQ35 .
COMPUTE RIPQ36= IPQ36 .
COMPUTE RIPQ37= IPQ37 .
COMPUTE RIPQ38= IPQ38 .
COMPUTE RIPQ39= IPQ39 .
COMPUTE RIPQ40= IPQ40 .
COMPUTE RIPQ41= IPQ41 .
COMPUTE RIPQ42= IPQ42 .
COMPUTE RIPQ43= IPQ43 .
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COMPUTE RIPQ65= IPQ65 .
COMPUTE RIPQ66= IPQ66 .
COMPUTE RIPQ67= IPQ67 .
COMPUTE RIPQ68= IPQ68 .
COMPUTE RIPQ69= IPQ69 .
COMPUTE RIPQ70= IPQ70 .
COMPUTE RIPQ71= IPQ71 .
COMPUTE RIPQ72= IPQ72 .
COMPUTE RIPQ73= IPQ73 .
COMPUTE RIPQ74= IPQ74 .
COMPUTE RIPQ75= IPQ75 .
COMPUTE RIPQ76= IPQ76 .
```

```
RECODE RIPQ01 TO RIPQ76 (5=1) (1=5) (4=2) (2=4) .
```

\*Now create a set of reverse-scored duodecant raw scores.

```
compute rass= mean.5(ripq07,ripq11,ripq39,ripq48,ripq56,ripq58) .
compute rdom= mean.5(ripq02,ripq08,ripq18,ripq28,ripq36,ripq63) .
compute rman= mean.5(ripq14,ripq31,ripq41,ripq51,ripq55,ripq70) .
```

```
compute rcol= mean.5(ripq10,ripq17,ripq19,ripq27,ripq45,ripq47).
compute ralo= mean.5(ripq06,ripq24,ripq40,ripq53,ripq57,ripq66).
compute rint= mean.5(ripq13,ripq30,ripq35,ripq50,ripq60,ripq65).
compute rtim= mean.5(ripq03,ripq21,ripq32,ripq42,ripq52,ripq71).
compute rdef= mean.5(ripq05,ripq15,ripq16,ripq23,ripq34,ripq59).
compute ragr= mean.5(ripq26,ripq38,ripq44,ripq67,ripq69,ripq72).
compute rnur= mean.5(ripq09,ripq12,ripq20,ripq29,ripq64,ripq68).
compute rwrn= mean.5(ripq04,ripq22,ripq33,ripq43,ripq49,ripq61).
compute rext= mean.5(ripq25,ripq46,ripq01,ripq54,ripq37,ripq62).
```

```
*=====*.
*===== IPQ Dimension Scores =====*.
*=====*.
```

```
* Scores representing the two underlying dimensions of the
* interpersonal circle can be defined from combinations of
* IPQ duodecant scores. The alignment of the resulting dimension
* scores can be specified in alternative ways. Here, three
* alternative "rotations" of these two scores are created.
* One is the alignment favored by Jerry Wiggins (1979),
* a second alignment corresponds to the Five Factor Model
* alignment favored by Costa and McCrae (1992), namely, the
* Five Factor Model's extraversion and agreeableness
* dimensions, and a third rotation corresponds to Tellegen's
* (1992) concepts of social potency
* and social closeness.
```

```
*=====*.
*===== "Wiggins" rotation" =====*.
*=====*.
* IPQ dimensions corresponding to Wiggins' interpersonal
* circumplex axes of dominance and nurturance.
```

```
COMPUTE IPQDOM = mean.5(DOM,ASS,EXT, RDEF,RTIM,RINT).
COMPUTE IPQLOV = mean.5(WRM,NUR,AGR, RALO,RCOL,RMAN).
```

```
*=====*.
*===== "Costa & McCrae rotation" =====*.
*=====*.
* IPQ dimensions corresponding to Costa & McCrae's (1992)
* extraversion and agreeableness factors of their Five-Factor
* model of personality.
```

```
COMPUTE IPQEXT = mean.5(ASS,EXT,WRM, RTIM,RINT,RALO).
COMPUTE IPQAGR = mean.5(NUR,AGR,DEF, RCOL,RMAN,RDOM).
```

```
*=====*.
*===== "Tellegen" rotation =====*.
*=====*.
* IPQ dimensions corresponding to Tellegen's (1982)
* concepts of Social Potency and Social Closeness.
```

```
COMPUTE IPQPOT = mean.5 (MAN, DOM, ASS, RDEF, RAGR, RTIM) .
COMPUTE IPQCLO = mean.5 (EXT, WRM, NUR, RCOL, RALO, RINT) .
```

```
* Creation of t-scores for the dimensions scores (mean=40, sdev=10).
* Note: t-scores are most commonly set at a mean of 50, however, circumplex
* plots look better defined using a mean of 40. Below item means and sdevs
* are from a 2004 UW undergraduate sample, N=480, however one could instead
* replace these values with sample specific means and standard deviations.
```

```
compute ipqdommn=3.3043.
compute ipqlovmn=3.5350.
compute ipqextmn=3.5175.
compute ipqagrmn=3.3178.
compute ipqpotmn=2.9391.
compute ipqclovn=3.6686.
```

```
compute ipqdomsd=0.56823.
compute ipqlovsd=0.50272.
compute ipqextsd=0.59134.
compute ipqagrsd=0.53102.
compute ipqpotsd=0.57042.
compute ipqclosd=0.55495.
```

```
compute tipqdom= (((ipqdom-ipqdommn)/ipqdomsd))*10)+40.
compute tipqlov= (((ipqlov-ipqlovmn)/ipqlovsd))*10)+40.
compute tipqext= (((ipqext-ipqextmn)/ipqextsd))*10)+40.
compute tipqagr= (((ipqagr-ipqagrmn)/ipqagrsd))*10)+40.
compute tipqpot= (((ipqpot-ipqpotmn)/ipqpotsd))*10)+40.
compute tipqclo= (((ipqclo-ipqclovn)/ipqclosd))*10)+40.
```

```
* IPQ Vector Scales.
```

```
* One may also define six bipolar scales corresponding to the
* six dimension scores defined above. They mark the same six
* rotated axes as the above scales do but are based on a
* set of non-overlapping items, whereas all IPQ items
* are used (above) to compute the dimensions scores.
* In some situations, a researcher may prefer narrower
* measurement of those six axes using non-overlapping items
* instead of measuring the six axes with the dimension scores
* computed from the whole set of IPQ items.
```

```
COMPUTE DOMDEF= mean (DOM, RDEF) .
COMPUTE ASSTIM= mean (ASS, RTIM) .
COMPUTE EXTINT= mean (EXT, RINT) .
```

```
COMPUTE WRMALO= mean(WRM, RALO) .
COMPUTE NURCOL= mean(NUR, RCOL) .
COMPUTE AGRMAN= mean(AGR, RMAN) .
```

```
* The following means and standard deviations
* for bipolar vector scales are from the same
* 2004 UW sample described above (N=480) .
```

```
compute asstimn = 3.1592 .
compute nurcoln = 3.6126 .
compute extintn = 3.7477 .
compute agrmann = 3.3469 .
compute domdefn = 3.0060 .
compute wrmalon = 3.6456 .
```

```
compute asstimsd = 0.71025 .
compute nurcolsd = 0.56009 .
compute extintsd = 0.74409 .
compute agrmansd = 0.68964 .
compute domdefsd = 0.64696 .
compute wrmalosd = 0.59975 .
```

```
compute tasstim= (((asstim-asstimn)/asstimsd))*10)+40 .
compute tnurcol= (((nurcol-nurcoln)/nurcolsd))*10)+40 .
compute textint= (((extint-extintn)/extintsd))*10)+40 .
compute tagrman= (((agrman-agrmann)/agrmansd))*10)+40 .
compute tdomdef= (((domdef-domdefn)/domdefsd))*10)+40 .
compute twrmalo= (((wrmalo-wrmalon)/wrmalosd))*10)+40 .
```

```
*=====*.
*===== End of scale scoring =====*.
*=====*.
```

Rotation A = Wiggins' (1979; 1995) Dom and Lov axes

Rotation B = Costa and McCrae's (1992) Extraversion and Agreeableness axes

Rotation C = Tellegen's (1982) Social Potency and Social Closeness axes.

<b>A</b> (Wiggins)	DOM=	(DO+AS+EX)	+	(rDF+rTM+rIN)	<i>Computing Polar Coordinates:</i> ANGLE= $\tan^{-1}(zDOM / zLOV)$ , plus adjustment below: If zLOV is -, add 180° If zLOV is + and zDOM is -, add 360° If zDOM and zLOV both +, make no adjustment VECTOR LENGTH= Square Root of $(zDOM^2+zLOV^2)$ ; To convert the result to a T-score, multiply by 10, add 40
	LOV=	(AF+NU+AG)	+	(rMN+rCO+rAL)	
<b>B</b> (Costa & McCrae)	EXT=	(AS+EX+AF)	+	(rAL+rIN+rTM)	
	AGR=	(NU+AG+DF)	+	(rDM+rMN+rCO)	
<b>C</b> (Tellegen)	POT=	(AS+DO+MN)	+	(rAG+rDF+rTM)	
	CLO=	(EX+AF+NU)	+	(rCO+rAL+rIN)	

## Methodological References: Data Analyses with Interpersonal Circumplex Measures

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