**Exploratory Factor Analysis (2-, 3-, and 4-factor solution)**

**SPSS Settings for EFA**

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| SPSS settings for initial EFA | SPSS settings for 2-, 3-, and 4-factor solution in EFA |
| **Software:** SPSS, version 24**Settings for Descriptives:** **Statistics:** check Univariate descriptivescheck Initial solution**Correlation matrix:** check Coefficients, Determinant, KMO **Settings for Extraction:** **Method**: Principal Axis Factoring**Analyze:** Correlation matrix**Display:** Unrotated factor solution**Display:** Scree plot**Extract:** Based on Eigenvalues greater than 1**Maximum iterations for convergence:** 25**Settings for Rotation:**Method: **None****Display:** Loading plots**Maximum iterations for convergence:** 25**Settings for Options:** **Missing values:** Exclude cases listwise**Coefficient display format**:Sorted by sizeSuppress small coefficients**Absolute value below**: .30 | **Software:** SPSS, version 24**Settings for Descriptives:** **Statistics:** check Univariate descriptives**Uncheck** Initial solution**Correlation matrix:** check Coefficients, Determinant, KMO **Settings for Extraction:** **Method**: Principal Axis Factoring**Analyze:** Correlation matrix**Display:** Unrotated factor solution**Display:** Scree plot**Extract:** Check Fixed number of factors**Factors to extract:** 2 (then 3, then 4)**Maximum iterations for convergence:** 25**Settings for Rotation:**Method: **Direct Oblimin****Display:** Rotated solution**Display:** Loading plots**Maximum iterations for convergence:** 25**Settings for Options:** **Missing values:** Exclude cases listwise**Coefficient display format**:Sorted by sizeSuppress small coefficients**Absolute value below**: .30 |

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| **Number of subjects/cases****(trigrams)** | **Number of variables** **(languages)** | **Subject to Variable Ratio** **(STV)** |  |
| 521 (sample size) | 11 | STV 47:1 (47 to 1) |  |

The EFAs on the following pages were run using the following Excel data: “trigrams\_11\_lang\_new”

Location of the Excel data: folder “EFA\_CFA\_HAC\_data\_Liberato\_Aug13”, in sub-folder ”EFA2\_and\_CFA2”

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| **Descriptive Statistics** |
|  | Mean | Std. Deviation | Analysis N |
| ARA\_normed | 6.05 | 12.58 | 521 |
| CHI\_normed | 7.29 | 14.32 | 521 |
| FRE\_normed | 8.42 | 16.43 | 521 |
| GER\_normed | 9.69 | 16.47 | 521 |
| HIN\_normed | 6.36 | 12.39 | 521 |
| ITA\_normed | 8.20 | 20.71 | 521 |
| JPN\_normed | 9.71 | 19.46 | 521 |
| KOR\_normed | 7.26 | 14.31 | 521 |
| SPA\_normed | 7.86 | 14.63 | 521 |
| TEL\_normed | 6.94 | 14.47 | 521 |
| TUR\_normed | 7.31 | 14.32 | 521 |

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| **Correlation Matrixa** |
|  | ARA\_normed | CHI\_normed | FRE\_normed | GER\_normed | HIN\_normed | ITA\_normed |
| Correlation | ARA\_normed | 1.000 | .748 | .709 | .718 | .650 | .672 |
| CHI\_normed | .748 | 1.000 | .615 | .643 | .634 | .537 |
| FRE\_normed | .709 | .615 | 1.000 | .795 | .571 | .756 |
| GER\_normed | .718 | .643 | .795 | 1.000 | .647 | .717 |
| HIN\_normed | .650 | .634 | .571 | .647 | 1.000 | .501 |
| ITA\_normed | .672 | .537 | .756 | .717 | .501 | 1.000 |
| JPN\_normed | .668 | .738 | .603 | .681 | .580 | .628 |
| KOR\_normed | .707 | .788 | .597 | .640 | .578 | .551 |
| SPA\_normed | .774 | .614 | .808 | .781 | .598 | .774 |
| TEL\_normed | .573 | .628 | .391 | .492 | .796 | .377 |
| TUR\_normed | .727 | .723 | .676 | .701 | .671 | .546 |

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| **Correlation Matrixa** |
|  | JPN\_normed | KOR\_normed | SPA\_normed | TEL\_normed | TUR\_normed |
| Correlation | ARA\_normed | .668 | .707 | .774 | .573 | .727 |
| CHI\_normed | .738 | .788 | .614 | .628 | .723 |
| FRE\_normed | .603 | .597 | .808 | .391 | .676 |
| GER\_normed | .681 | .640 | .781 | .492 | .701 |
| HIN\_normed | .580 | .578 | .598 | .796 | .671 |
| ITA\_normed | .628 | .551 | .774 | .377 | .546 |
| JPN\_normed | 1.000 | .835 | .643 | .555 | .628 |
| KOR\_normed | .835 | 1.000 | .602 | .551 | .691 |
| SPA\_normed | .643 | .602 | 1.000 | .455 | .705 |
| TEL\_normed | .555 | .551 | .455 | 1.000 | .585 |
| TUR\_normed | .628 | .691 | .705 | .585 | 1.000 |

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| a. Determinant = 2.025E-5 |

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| **KMO and Bartlett's Test** |
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. | .926 |
| Bartlett's Test of Sphericity | Approx. Chi-Square | 5571.239 |
| df | 55 |
| Sig. | .000 |

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| **Communalities** |
|  | Initial | Extraction |
| ARA\_normed | .747 | .750 |
| CHI\_normed | .739 | .738 |
| FRE\_normed | .760 | .807 |
| GER\_normed | .746 | .764 |
| HIN\_normed | .736 | .675 |
| ITA\_normed | .686 | .702 |
| JPN\_normed | .764 | .667 |
| KOR\_normed | .780 | .684 |
| SPA\_normed | .787 | .822 |
| TEL\_normed | .691 | .690 |
| TUR\_normed | .696 | .688 |

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| Extraction Method: Principal Axis Factoring. |

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| **Total Variance Explained** |
| Factor | Initial Eigenvalues | Extraction Sums of Squared Loadings |
| Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 7.492 | 68.112 | 68.112 | 7.222 | 65.650 | 65.650 |
| 2 | 1.038 | 9.432 | 77.544 | .766 | 6.959 | 72.610 |
| 3 | .663 | 6.028 | 83.573 |  |  |  |
| 4 | .415 | 3.773 | 87.345 |  |  |  |
| 5 | .308 | 2.797 | 90.142 |  |  |  |
| 6 | .233 | 2.119 | 92.261 |  |  |  |
| 7 | .216 | 1.959 | 94.220 |  |  |  |
| 8 | .185 | 1.686 | 95.906 |  |  |  |
| 9 | .171 | 1.555 | 97.461 |  |  |  |
| 10 | .153 | 1.395 | 98.856 |  |  |  |
| 11 | .126 | 1.144 | 100.000 |  |  |  |

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| Extraction Method: Principal Axis Factoring. |



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| **Factor Matrixa** |
|  | Factor |
| 1 | 2 |
| ARA\_normed | .866 |  |
| SPA\_normed | .855 | -.303 |
| GER\_normed | .854 |  |
| CHI\_normed | .831 |  |
| FRE\_normed | .828 | -.349 |
| TUR\_normed | .825 |  |
| KOR\_normed | .812 |  |
| JPN\_normed | .812 |  |
| HIN\_normed | .770 |  |
| ITA\_normed | .763 | -.346 |
| TEL\_normed | .679 | .479 |

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| Extraction Method: Principal Axis Factoring.a |
| a. 2 factors extracted. 5 iterations required. |

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**2-factor solution**

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| **KMO and Bartlett's Test** |
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. | .926 |
| Bartlett's Test of Sphericity | Approx. Chi-Square | 5571.239 |
| df | 55 |
| Sig. | .000 |

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| **Communalities** |
|  | Initial | Extraction |
| ARA\_normed | .747 | .750 |
| CHI\_normed | .739 | .738 |
| FRE\_normed | .760 | .807 |
| GER\_normed | .746 | .764 |
| HIN\_normed | .736 | .675 |
| ITA\_normed | .686 | .702 |
| JPN\_normed | .764 | .667 |
| KOR\_normed | .780 | .684 |
| SPA\_normed | .787 | .822 |
| TEL\_normed | .691 | .690 |
| TUR\_normed | .696 | .688 |

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| Extraction Method: Principal Axis Factoring. |

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| **Total Variance Explained** |
| Factor | Initial Eigenvalues | Extraction Sums of Squared Loadings | Rotation Sums of Squared Loadingsa |
| Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % | Total |
| 1 | 7.492 | 68.112 | 68.112 | 7.222 | 65.650 | 65.650 | 6.352 |
| 2 | 1.038 | 9.432 | 77.544 | .766 | 6.959 | 72.610 | 6.017 |
| 3 | .663 | 6.028 | 83.573 |  |  |  |  |
| 4 | .415 | 3.773 | 87.345 |  |  |  |  |

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| Extraction Method: Principal Axis Factoring. |
| a. When factors are correlated, sums of squared loadings cannot be added to obtain a total variance. |

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| **Factor Matrixa** |
|  | Factor |
| 1 | 2 |
| ARA\_normed | .866 |  |
| SPA\_normed | .855 | -.303 |
| GER\_normed | .854 |  |
| CHI\_normed | .831 |  |
| FRE\_normed | .828 | -.349 |
| TUR\_normed | .825 |  |
| KOR\_normed | .812 |  |
| JPN\_normed | .812 |  |
| HIN\_normed | .770 |  |
| ITA\_normed | .763 | -.346 |
| TEL\_normed | .679 | .479 |

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| Extraction Method: Principal Axis Factoring.a |
| a. 2 factors extracted. 5 iterations required. |

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| **Pattern Matrixa** |
|  | Factor |
| 1 | 2 |
| FRE\_normed | .917 |  |
| SPA\_normed | .877 |  |
| ITA\_normed | .875 |  |
| GER\_normed | .735 |  |
| ARA\_normed | .534 | .409 |
| TEL\_normed |  | .948 |
| HIN\_normed |  | .748 |
| CHI\_normed |  | .691 |
| KOR\_normed |  | .605 |
| JPN\_normed | .371 | .518 |
| TUR\_normed | .387 | .516 |

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| Extraction Method: Principal Axis Factoring.  Rotation Method: Oblimin with Kaiser Normalization.a |
| a. Rotation converged in 16 iterations. |

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| **Structure Matrix** |
|  | Factor |
| 1 | 2 |
| SPA\_normed | .906 | .640 |
| FRE\_normed | .898 | .596 |
| GER\_normed | .863 | .689 |
| ITA\_normed | .837 | .539 |
| ARA\_normed | .812 | .772 |
| CHI\_normed | .694 | .843 |
| TEL\_normed | .455 | .819 |
| HIN\_normed | .612 | .818 |
| KOR\_normed | .698 | .800 |
| TUR\_normed | .738 | .779 |
| JPN\_normed | .723 | .770 |

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| Extraction Method: Principal Axis Factoring.  Rotation Method: Oblimin with Kaiser Normalization. |

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| **Factor Correlation Matrix** |
| Factor | 1 | 2 |
| 1 | 1.000 | .680 |
| 2 | .680 | 1.000 |

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| Extraction Method: Principal Axis Factoring.  Rotation Method: Oblimin with Kaiser Normalization. |

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**3-factor solution**

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| **KMO and Bartlett's Test** |
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. | .926 |
| Bartlett's Test of Sphericity | Approx. Chi-Square | 5571.239 |
| df | 55 |
| Sig. | .000 |

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| **Communalities** |
|  | Initial | Extraction |
| ARA\_normed | .747 | .744 |
| CHI\_normed | .739 | .759 |
| FRE\_normed | .760 | .814 |
| GER\_normed | .746 | .769 |
| HIN\_normed | .736 | .836 |
| ITA\_normed | .686 | .695 |
| JPN\_normed | .764 | .752 |
| KOR\_normed | .780 | .916 |
| SPA\_normed | .787 | .841 |
| TEL\_normed | .691 | .796 |
| TUR\_normed | .696 | .679 |

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| Extraction Method: Principal Axis Factoring. |

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| **Total Variance Explained** |
| Factor | Initial Eigenvalues | Extraction Sums of Squared Loadings | Rotation Sums of Squared Loadingsa |
| Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % | Total |
| 1 | 7.492 | 68.112 | 68.112 | 7.274 | 66.131 | 66.131 | 6.329 |
| 2 | 1.038 | 9.432 | 77.544 | .830 | 7.541 | 73.672 | 4.818 |
| 3 | .663 | 6.028 | 83.573 | .497 | 4.519 | 78.191 | 5.971 |
| 4 | .415 | 3.773 | 87.345 |  |  |  |  |
| 5 | .308 | 2.797 | 90.142 |  |  |  |  |

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| Extraction Method: Principal Axis Factoring. |
| a. When factors are correlated, sums of squared loadings cannot be added to obtain a total variance. |

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| **Factor Matrixa** |
|  | Factor |
| 1 | 2 | 3 |
| ARA\_normed | .862 |  |  |
| SPA\_normed | .853 | -.313 |  |
| GER\_normed | .851 |  |  |
| KOR\_normed | .836 |  | -.436 |
| CHI\_normed | .831 |  |  |
| FRE\_normed | .825 | -.353 |  |
| TUR\_normed | .821 |  |  |
| JPN\_normed | .819 |  |  |
| HIN\_normed | .785 | .330 | .332 |
| ITA\_normed | .759 | -.341 |  |
| TEL\_normed | .687 | .520 |  |

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| Extraction Method: Principal Axis Factoring.a |
| a. 3 factors extracted. 15 iterations required. |
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| **Pattern Matrixa** |
|  | Factor |
| 1 | 2 | 3 |
| FRE\_normed | .923 |  |  |
| SPA\_normed | .908 |  |  |
| ITA\_normed | .844 |  |  |
| GER\_normed | .738 |  |  |
| ARA\_normed | .500 |  |  |
| TUR\_normed | .376 |  |  |
| TEL\_normed |  | .882 |  |
| HIN\_normed |  | .826 |  |
| KOR\_normed |  |  | -1.021 |
| JPN\_normed |  |  | -.734 |
| CHI\_normed |  |  | -.643 |

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| Extraction Method: Principal Axis Factoring.  Rotation Method: Oblimin with Kaiser Normalization.a |
| a. Rotation converged in 7 iterations. |

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| **Structure Matrix** |
|  | Factor |
| 1 | 2 | 3 |
| SPA\_normed | .917 | .554 | -.662 |
| FRE\_normed | .902 | .501 | -.642 |
| GER\_normed | .867 | .599 | -.697 |
| ITA\_normed | .832 | .441 | -.604 |
| ARA\_normed | .811 | .663 | -.765 |
| TUR\_normed | .741 | .689 | -.736 |
| HIN\_normed | .641 | .901 | -.626 |
| TEL\_normed | .470 | .888 | -.611 |
| KOR\_normed | .665 | .601 | -.956 |
| JPN\_normed | .701 | .592 | -.860 |
| CHI\_normed | .680 | .694 | -.851 |

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| Extraction Method: Principal Axis Factoring.  Rotation Method: Oblimin with Kaiser Normalization. |

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| **Factor Correlation Matrix** |
| Factor | 1 | 2 | 3 |
| 1 | 1.000 | .578 | -.723 |
| 2 | .578 | 1.000 | -.662 |
| 3 | -.723 | -.662 | 1.000 |

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| Extraction Method: Principal Axis Factoring.  Rotation Method: Oblimin with Kaiser Normalization. |

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**4-factor solution**

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| **KMO and Bartlett's Test** |
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. | .926 |
| Bartlett's Test of Sphericity | Approx. Chi-Square | 5571.239 |
| df | 55 |
| Sig. | .000 |

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| --- |
| **Communalities** |
|  | Initial | Extraction |
| ARA\_normed | .747 | .756 |
| CHI\_normed | .739 | .783 |
| FRE\_normed | .760 | .812 |
| GER\_normed | .746 | .766 |
| HIN\_normed | .736 | .820 |
| ITA\_normed | .686 | .759 |
| JPN\_normed | .764 | .876 |
| KOR\_normed | .780 | .860 |
| SPA\_normed | .787 | .835 |
| TEL\_normed | .691 | .837 |
| TUR\_normed | .696 | .754 |

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| Extraction Method: Principal Axis Factoring. |

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| **Total Variance Explained** |
| Factor | Initial Eigenvalues | Extraction Sums of Squared Loadings | Rotation Sums of Squared Loadingsa |
| Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % | Total |
| 1 | 7.492 | 68.112 | 68.112 | 7.296 | 66.332 | 66.332 | 6.261 |
| 2 | 1.038 | 9.432 | 77.544 | .850 | 7.726 | 74.058 | 4.817 |
| 3 | .663 | 6.028 | 83.573 | .506 | 4.596 | 78.654 | 5.972 |
| 4 | .415 | 3.773 | 87.345 | .205 | 1.866 | 80.520 | 1.200 |
| 5 | .308 | 2.797 | 90.142 |  |  |  |  |
| 6 | .233 | 2.119 | 92.261 |  |  |  |  |

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| Extraction Method: Principal Axis Factoring. |
| a. When factors are correlated, sums of squared loadings cannot be added to obtain a total variance. |

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| **Factor Matrixa** |
|  | Factor |
| 1 | 2 | 3 | 4 |
| ARA\_normed | .862 |  |  |  |
| SPA\_normed | .851 | -.307 |  |  |
| GER\_normed | .849 |  |  |  |
| CHI\_normed | .833 |  |  |  |
| JPN\_normed | .832 |  | -.356 |  |
| KOR\_normed | .829 |  | -.388 |  |
| TUR\_normed | .829 |  |  |  |
| FRE\_normed | .823 | -.349 |  |  |
| HIN\_normed | .782 | .322 | .315 |  |
| ITA\_normed | .765 | -.363 |  |  |
| TEL\_normed | .690 | .540 |  |  |

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| Extraction Method: Principal Axis Factoring.a |
| a. Attempted to extract 4 factors. More than 25 iterations required. (Convergence=.001). Extraction was terminated. |

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| **Pattern Matrixa** |
|  | Factor |
| 1 | 2 | 3 | 4 |
| FRE\_normed | .900 |  |  |  |
| SPA\_normed | .884 |  |  |  |
| ITA\_normed | .874 |  |  |  |
| GER\_normed | .719 |  |  |  |
| ARA\_normed | .486 |  |  |  |
| TUR\_normed | .355 |  |  | -.326 |
| TEL\_normed |  | .930 |  |  |
| HIN\_normed |  | .803 |  |  |
| KOR\_normed |  |  | -.936 |  |
| JPN\_normed |  |  | -.859 |  |
| CHI\_normed |  |  | -.644 |  |

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| Extraction Method: Principal Axis Factoring.  Rotation Method: Oblimin with Kaiser Normalization.a |
| a. Rotation converged in 11 iterations. |

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| **Structure Matrix** |
|  | Factor |
| 1 | 2 | 3 | 4 |
| SPA\_normed | .911 | .551 | -.662 |  |
| FRE\_normed | .897 | .496 | -.639 |  |
| GER\_normed | .862 | .598 | -.698 |  |
| ITA\_normed | .854 | .452 | -.616 |  |
| ARA\_normed | .802 | .653 | -.756 | -.412 |
| TUR\_normed | .729 | .675 | -.724 | -.547 |
| TEL\_normed | .460 | .910 | -.608 |  |
| HIN\_normed | .635 | .890 | -.623 | -.330 |
| KOR\_normed | .656 | .605 | -.924 | -.309 |
| JPN\_normed | .701 | .608 | -.914 |  |
| CHI\_normed | .664 | .684 | -.845 | -.444 |

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| Extraction Method: Principal Axis Factoring.  Rotation Method: Oblimin with Kaiser Normalization. |

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| **Factor Correlation Matrix** |
| Factor | 1 | 2 | 3 | 4 |
| 1 | 1.000 | .567 | -.717 | -.249 |
| 2 | .567 | 1.000 | -.661 | -.332 |
| 3 | -.717 | -.661 | 1.000 | .264 |
| 4 | -.249 | -.332 | .264 | 1.000 |

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| Extraction Method: Principal Axis Factoring.  Rotation Method: Oblimin with Kaiser Normalization. |

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