

Process Model Complexity Metrics, Cognitive Load and Visual Behavior: A Multi-Granular Eye-Tracking Analysis

Appendix: Measures (metrics applied to models)

Essential complexity

Models \ Symboles	Size	Diameter	Average Conn.	Max Connector	Coeff. Conn.	Separability	Sequentiality	Depth	Structuredness	Conn. Hetero.	C. F. Complex.	Cyclicity	Token Split
	Size (↘)	Diam (↘)	Avg d _c (↘)	Max d _c (↘)	Coeff. Conn. (↘)	Π (↗)	Ξ (↗)	Λ (↘)	Φ (↗)	CH (↘)	CFC (↘)	CYC (↘)	TS (↘)
model_g3, Simple	23.0000	23.0000	3.0000	3.0000	1.1304	0.5714	0.0769	1.0000	1.0000	0.8113	7.0000	0.1739	1.0000
model_g2, Complex	88.0000	68.0000	3.2500	5.0000	1.2727	0.0698	0.0625	5.0000	0.8523	0.8587	38.0000	0.9545	15.0000
model_g4, Composed	104.0000	84.0000	3.1739	4.0000	1.2500	0.0098	0.0231	3.0000	0.9038	0.8365	43.0000	0.7692	15.0000

Abbreviations:
Average Conn.: Average Connector
Coeff. Conn.: Coefficient Connectivity
Conn. Hetero.: Connector Heterogeneity
C.F. Complex.: Control Flow Complexity

Accidental complexity

Models \ Symboles	%simpleEdges	%brokenEdges	%totalCross	%orthoSegments	%symPatterns	Flow consistency
	%sE (↗)	%bE (↘)	%tC (↘)	%oS (↗)	%sP (↗)	M-BP (↗)
model_g3, Simple	0.6154	0.3846	0.0000	1.0000	1.0000	0.8235
model_g5, Complex	0.5385	0.4615	0.0698	0.8605	0.0000	0.7059
model_g6, Composed	0.4815	0.5185	0.1111	0.9451	0.0000	0.6177

Abbreviations:
orthoSegments.: orthogonal Segments
symPatterns.: symmetrical Patterns