Supplementary Technical Material for Reviewers

POGET – Perceptual Organization and Graphic Expression Test

Operational Structure, Coding System, and Digital Processing Framework

Positioning Within Graphic Assessment Traditions

Graphic assessment procedures have historically ranged from projective-symbolic interpretations (e.g., Draw-a-Person, Tree Test) to more structurally operationalised systems such as the Wartegg Drawing Completion Test. While POGET shares with completion paradigms the use of predefined visual stimuli, it differs in its strictly rule-based dimensional, spatial, and chromatic coding framework. Rather than inferring symbolic meaning from content, POGET operationalises perceptual–structural organisation through predefined categorical criteria designed for quantitative analysis and statistical validation.

1. Structural Overview of the Protocol

POGET is a structured perceptual–graphic assessment protocol composed of four graphic sheets containing 100 predefined rectangular units ("oriscellas") organised into 11 functional bands.

Participants select one unit per band and generate a drawing using a minimal visual indicator ("lineogram") as a starting point. Graphic productions are coded across expressive, spatial, structural, chromatic, and evolutionary subsystems using predefined quantitative and categorical criteria.

All scoring rules are defined prior to data collection to ensure standardisation and replicability independent of interpretative frameworks.

2. Measurement Domains

Primary Expressive Factors: Pressure; Structural elements (point, line, curve, angle); Size (height and width).

Secondary Expressive Factors: Plane use (uni-, bi-, tridimensional); Contrast and tonal gradation; Pictorial assembly.

Chromatic Organisation: Intensity; Modality (void, single, predominant, distributed); Distribution; Stompage; Texture.

All variables are operationally defined and coded categorically or ordinally.

3. Focal Object Rule and Dimensional Coding

Dimensional measurement is restricted to the lineogrammatic object directly derived from the selected printed stimulus. Background additions are excluded unless structurally redefining the focal stimulus.

Width Coding:
Level 1: < 1 cm or > 5 cm
Level 2: 4–5 cm
Level 3: 1–3 cm or proportionally aligned with the stimulus

Height Coding:
Level 1: < 2 cm or > 4 cm
Level 2: 3–4 cm
Level 3: 2–3 cm or proportionally aligned with the stimulus

4. Spatial Weighting System

Each oriscella is subdivided into nine equal zones (3×3 grid).

Full occupation: 1.00
Half occupation: 0.50
Minimal presence: 0.25

Directional orientation is recorded. Zone values are aggregated to estimate pictorial density and assembly distribution.

5. Structural and Evolutionary Coding

Structural elements (point, line, curve, angle) are counted in selected bands.

Primary Evolutionary Quality assesses structural adaptation between stimulus and drawing.
Secondary Evolutionary Quality evaluates coherence between drawing and written material.

Indices assess formal structural integration rather than symbolic interpretation.

6. Chromatic Coding

Includes overall and band-specific intensity, modality, distribution, stompage, and texture.

Colour surface weighting follows proportional occupation rules analogous to spatial weighting.

7. Digital Tabulation and Workflow

All variables are entered into a structured digital interface comprising modular inputs.

The system automatically generates band-level summaries, psychogram outputs, and structured datasets for statistical analysis.

Operational Sequence:
1. Oriscella recorded
2. Focal object identified
3. Height and width measured
4. Structural and spatial coding applied
5. Chromatic coding completed
6. Data entered digitally
7. Psychogram generated automatically

8. Theoretical–Perceptual Foundation

The POGET protocol is grounded in contemporary perceptual and action-oriented frameworks that conceptualise vision as an embodied system for environmental organisation and motor coordination.

Drawing on ecological perception theory and dual visual stream research, POGET examines formal organisation and structural coherence as measurable indicators of perceptual–motor configuration, rather than inferring symbolic meaning from graphic content.

9. Statistical Framework

Construct validation was examined through proportional deviation analyses and associations with the Millon Index of Personality Styles (MIPS).

Associations were tested using proportion tests and corrected standardised residuals ($|z| > 1.96$, $p < .05$).

Given the categorical structure of POGET variables, factor-analytic modelling was not applied at this stage.

Appendix A. Illustrative Example of Graphic Production and Software-Based Coding

The following example is presented solely for procedural illustration and does not constitute an individual clinical interpretation.

The productions corresponding to Sheet A can be observed below. The participant freely selected one oriscella within each band and, based on the pre-printed minimal visual indicator (“lineogram”), generated a drawing in each selected unit.

After completing the eleven drawings distributed across the four protocol sheets (corresponding to the eleven bands in total), the participant returned to the first sheet,

which functions as the frontispiece. At that stage, each drawing was assigned a title and accompanied by a brief written description provided by the participant.

Module 1 – Module 1 – Illustrative Participant – Session 1 (2008)

In this module, the researcher transcribes verbatim the handwritten titles and descriptions provided by the participant. The software interface functions exclusively as a structured recording system, preserving the original wording without modification or interpretive alteration.

Figure A1. Frontispiece interface of the POGET software (Module 1).
Note. The interface displays the band number (*Banda*), title (*Título*), and participant description (*Descripción*). "Frontispicio" refers to the sheet where participants assign a title

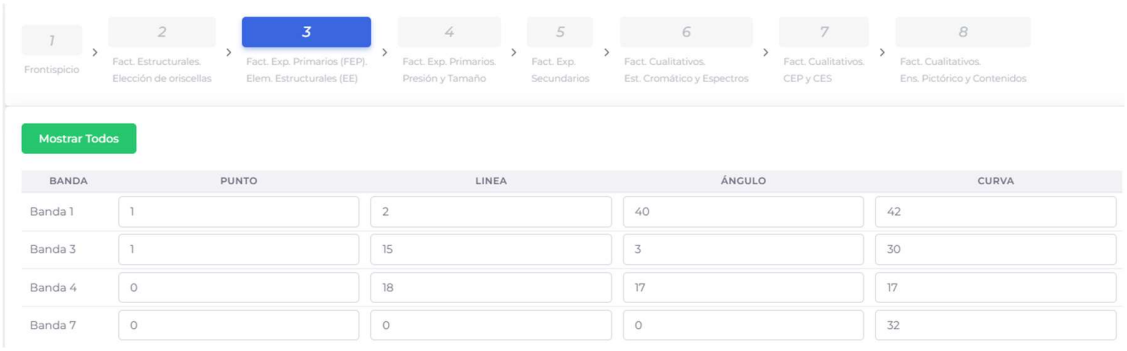
and provide a written description for each drawing after completing the eleven graphic productions. “Elección de oriscellas” corresponds to the selection of one unit per band. “Factores estructurales” and “Factores expresivos primarios” refer to predefined coding domains within the scoring system.

The original paper format corresponding to the first three drawings of Sheet A can be observed below.

Figure A2. POGET Software Interface – Module 2 (Oriscella Selection)

Note. “Oriscella selection” corresponds to Module 2 of the POGET software, designed to facilitate standardized tabulation. In this module, the examiner selects the option corresponding to the unit chosen by the participant within each band. For Band 1, ten possible options are available, numerically ordered from left to right across the two rows of the graphic protocol. This structured selection system ensures procedural consistency and accurate data entry.

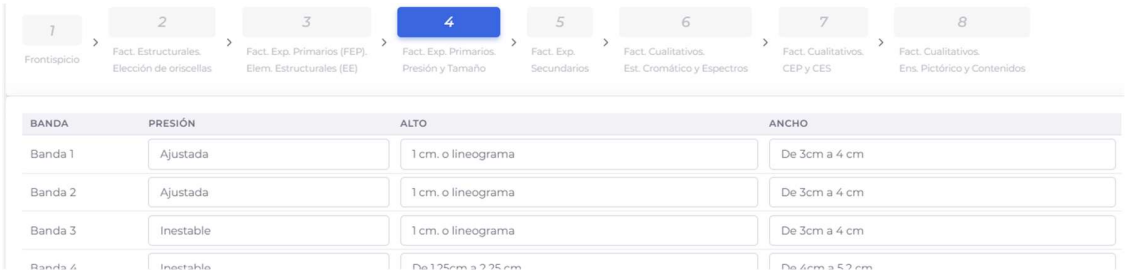
Figure A3. POGET Software Interface – Module 3 (Primary Expressive Structural Elements)



Note. Bands 1, 3, 4, and 7 are selected for the quantification of the four basic structural elements elicited by their respective lineograms: point, line, angle, and curve. Within this module, the examiner systematically identifies and counts the occurrence of each element according to predefined operational criteria.

These four bands constitute an abbreviated version of the protocol currently under empirical evaluation. Inter-rater agreement analyses conducted during pilot testing indicated high consistency in the identification and quantification of structural elements across independent coders. Moreover, quantitative indices derived from this abbreviated format have demonstrated strong correspondence with those obtained from the full protocol tabulation and psychogram profiles, supporting its structural representativeness.

Figure A4. POGET Software Interface – Module 4 (Primary Expressive Factors: Pressure and Size)



Note. This module records two primary expressive variables: pressure and size (width). Pressure is coded according to predefined categorical criteria (e.g., adjusted, unstable), while size is quantified based on standardized measurement intervals (e.g., 1 cm relative to the lineogram; width ranges between 3–4 cm, etc.).

These parameters are operationally defined prior to data collection and are coded using explicit measurement thresholds, reducing interpretative variability. The structured

categorization of pressure and dimensional range allows graphic productions to be translated into discrete quantitative variables suitable for statistical analysis.

Figure A5. POGET Software Interface – Module 5 (Secondary Expressive Factors)

Note. This module records secondary expressive variables related to spatial organization and visual regulation within the graphic field. The coded parameters include plane use (e.g., single plane, tridimensional perspective), sharpness–contrast, and light–dark distribution.

Each variable is categorized according to predefined operational definitions established prior to data collection. Plane use reflects spatial structuring within the graphic field; sharpness–contrast refers to perceptual differentiation and visual definition; and light–dark coding captures tonal modulation across the production.

These structured classifications allow spatial and perceptual organization to be translated into categorical variables, contributing to the multidimensional quantitative profile of each protocol.

Figure A6. POGET Software Interface – Module 6 (Chromatic and Spectral Organization)

Figure A6a

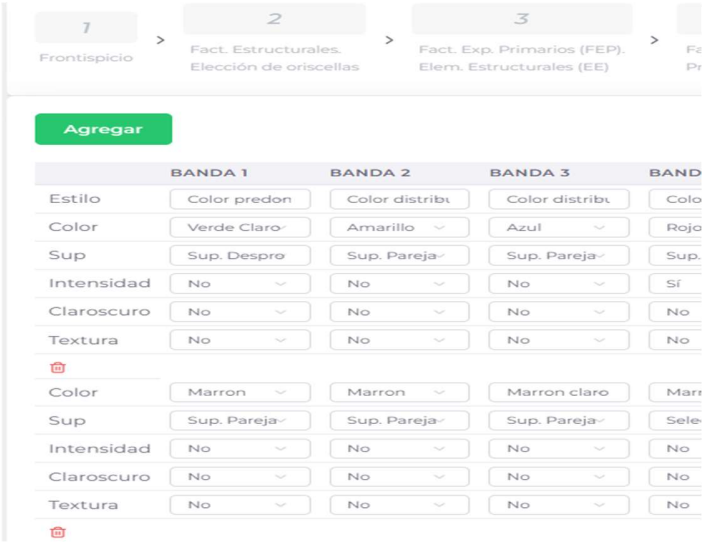
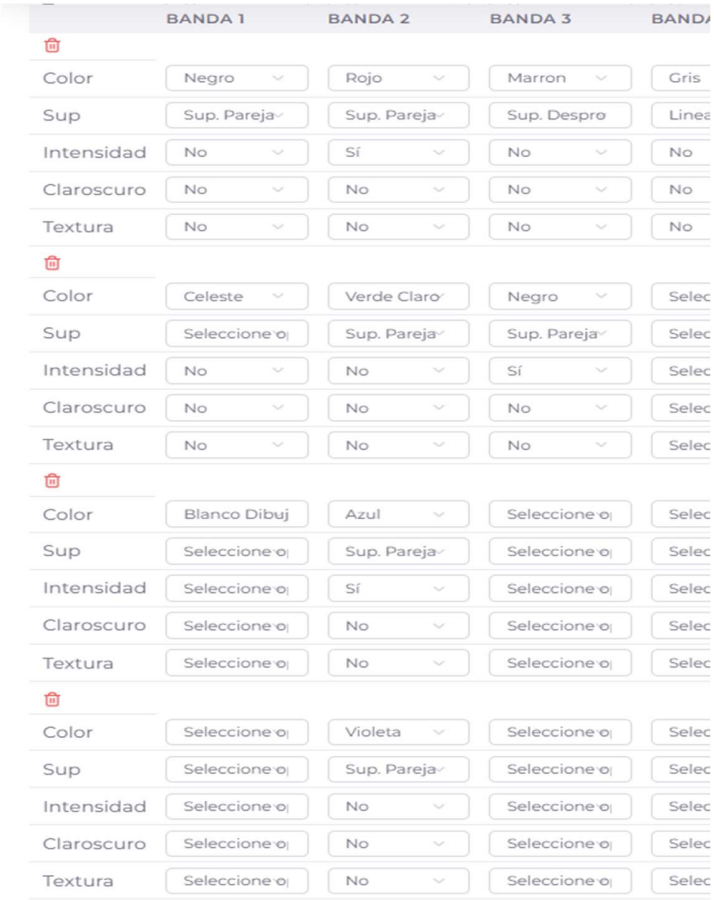


Figure A6b



	BANDA 1	BANDA 2	BANDA 3	BANDA
Color	Negro	Rojo	Marron	Gris
Sup	Sup. Pareja	Sup. Pareja	Sup. Despro	Linea
Intensidad	No	Sí	No	No
Claroscuro	No	No	No	No
Textura	No	No	No	No
Color	Celeste	Verde Claro	Negro	Selec
Sup	Seleccione o	Sup. Pareja	Sup. Pareja	Selec
Intensidad	No	No	Sí	Selec
Claroscuro	No	No	No	Selec
Textura	No	No	No	Selec
Color	Blanco Dibuj	Azul	Seleccione o	Selec
Sup	Seleccione o	Sup. Pareja	Seleccione o	Selec
Intensidad	Seleccione o	Sí	Seleccione o	Selec
Claroscuro	Seleccione o	No	Seleccione o	Selec
Textura	Seleccione o	No	Seleccione o	Selec
Color	Seleccione o	Violeta	Seleccione o	Selec
Sup	Seleccione o	Sup. Pareja	Seleccione o	Selec
Intensidad	Seleccione o	No	Seleccione o	Selec
Claroscuro	Seleccione o	No	Seleccione o	Selec
Textura	Seleccione o	No	Seleccione o	Selec

Note. This module operationalizes chromatic organization across bands through structured categorical parameters. “Color” refers to both spectral hues and achromatic values (including black, white, and grey). “Surface” (Sup.) indicates the mode of chromatic application (e.g., even coverage, dispersed application, linear distribution). “Intensity” records relative saturation or emphasis. “Chiaroscuro” captures light–dark modulation. “Texture” refers to perceptual surface differentiation (e.g., smooth, layered, patterned application).

Tabulation proceeds spectrum by spectrum within the software interface. For reasons of editorial economy, only representative fragments of the chromatic coding structure are presented.

The structured multi-level registration system enables transformation of chromatic expression into discrete categorical variables suitable for quantitative analysis.

Figure A7. POGET Software Interface – Module 7 (Qualitative Evolutionary Parameters)

Note. This module records qualitative-evolutionary parameters derived from predefined structural criteria. “Primary evolutionary quality” refers to the degree of formal completion and structural integration achieved within the selected band. “Secondary evolutionary quality” captures the consistency of elaboration and organizational coherence relative to the initial lineogram.

Each category is coded according to standardized operational definitions established in the scoring manual. The classifications (e.g., full achievement) reflect formal structural criteria rather than symbolic or clinical interpretation.

The content variables included in this module were not incorporated into the present construct validation analyses. Their systematic empirical evaluation constitutes a subsequent phase of the research program.

Ongoing studies are examining content classifications across normative samples, with stratification by age and sex, in order to establish population-based reference patterns and variability indices. Preliminary analyses conducted on large samples have indicated meaningful variability trends; however, these findings are currently under preparation for publication as part of graduate-level thesis research.

Figure A8. POGET Software Interface – Module 8 (Band-Based Content Coding)

Content variables, in interaction with the selected oriscella (which already carries a structural indicator derived from comparative scale analysis), constitute the potential field for pictorial-symbolic elaboration.

While the present study does not undertake symbolic interpretation, this dimension may be explored within complementary theoretical frameworks, including phenomenology, semiotics, and various traditions within depth psychology. Such approaches would address the qualitative and symbolic articulation of graphic production beyond the structural-quantitative focus of the current validation phase.

Figure A8a. Module 8 – Band 1 Content Coding

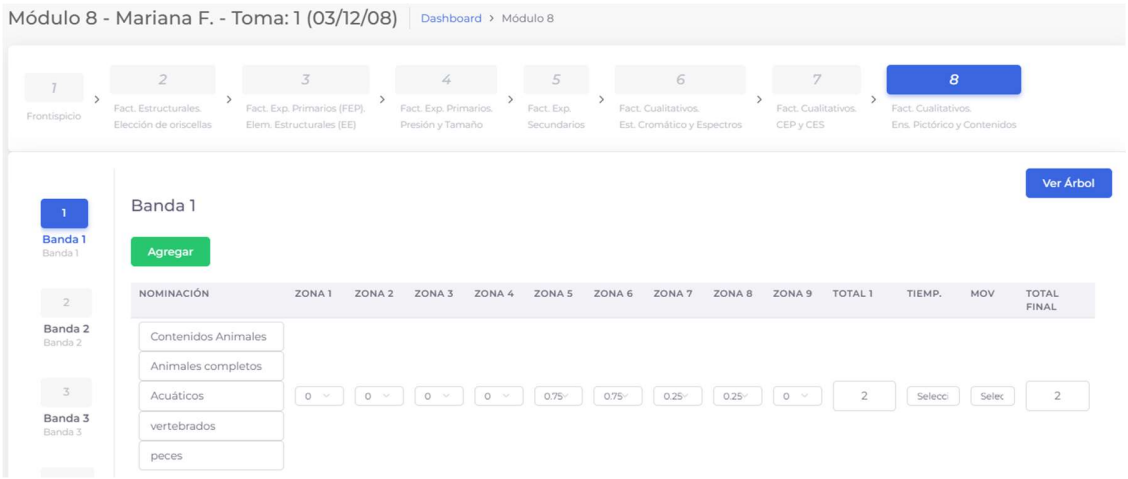


Figure A8b. Module 8 – Band 2 Content Coding

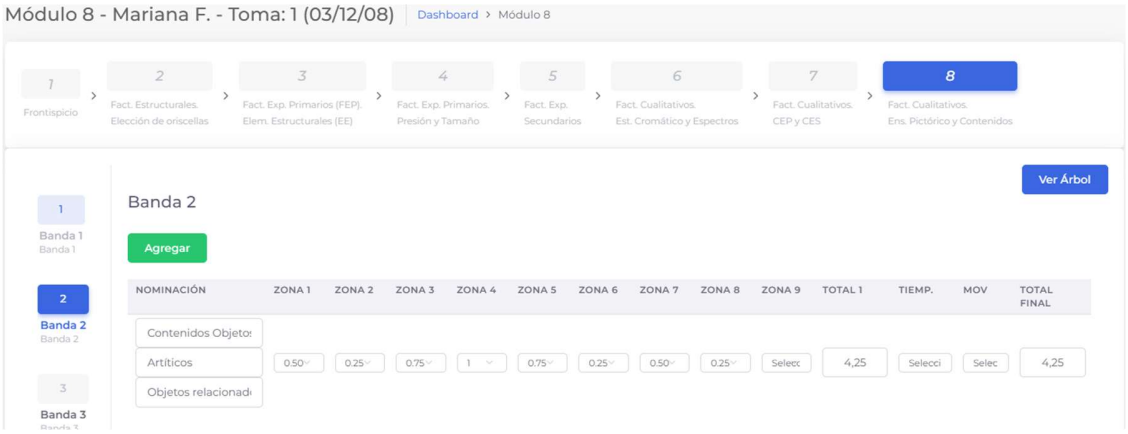
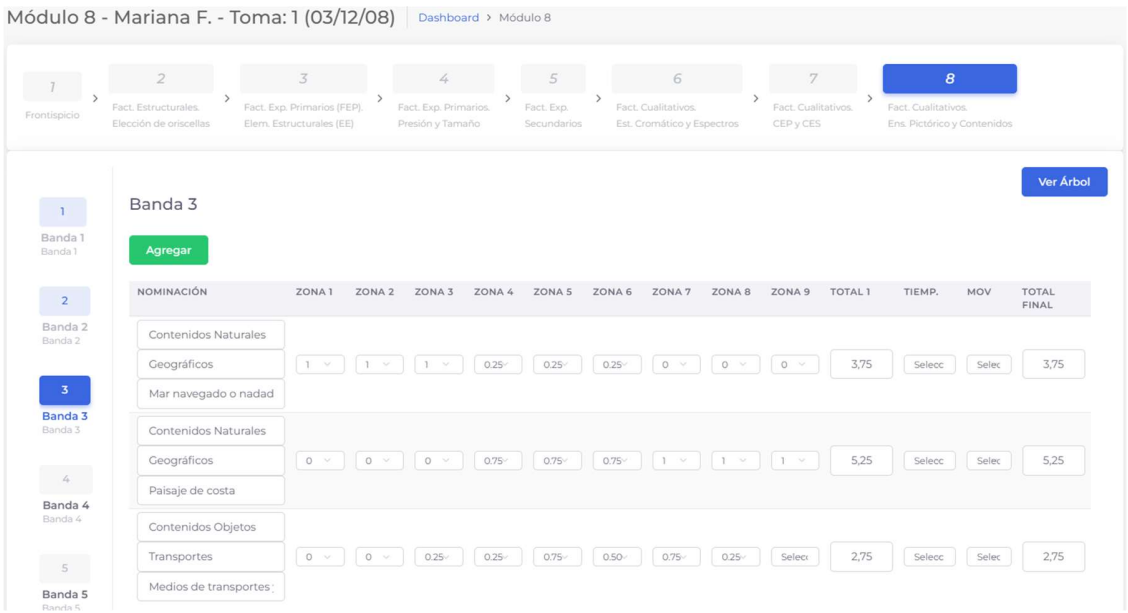


Figure A8c. Module 8 – Band 3 Content Coding


Módulo 8 - Mariana F. - Toma: 1 (03/12/08)
Dashboard › Módulo 8
1 Frontispicio
2 Fact. Estructurales. Elección de oriscellas
3 Fact. Exp. Primarios (FEP). Elem. Estructurales (EE)
4 Fact. Exp. Primarios. Presión y Tamaño
5 Fact. Exp. Secundarios
6 Fact. Cualitativos. Est. Cromático y Espectros
7 Fact. Cualitativos. CEP y CES
8 Fact. Cualitativos. Ens. Pictórico y Contenidos
Ver Árbol
1 Banda 1 Banda 1
2 Banda 2 Banda 2
3 Banda 3 Banda 3
4 Banda 4 Banda 4
5 Banda 5
Banda 3
Agregar
NOMINACIÓN
ZONA 1
ZONA 2
ZONA 3
ZONA 4
ZONA 5
ZONA 6
ZONA 7
ZONA 8
ZONA 9
TOTAL 1
TIEMP.
MOV
TOTAL FINAL
Contenidos Naturales
Geográficos
Mar navegado o nadad
3,75
3,75
Contenidos Naturales
Geográficos
Paisaje de costa
5,25
5,25
Contenidos Objetos
Transportes
Medios de transportes
2,75
2,75