

Appendix: Visual Analysis Worksheet

Part 1: Characteristics of Data

Characteristic	Questions	+	–
Level	Is a consistent level established in each condition prior to condition change?	Yes	No
	Is there a consistent level change between conditions, in the expected direction?	Yes	No
Trend	Are unexpected trends present that make determination of behaviour change difficult?	No	Yes
	Is there a consistent change in trend across conditions, in the expected direction?	Yes	No
Variability	Does unexpected variability exist in one or more conditions?	No	Yes
	Does within-condition variability impede determinations about level changes between conditions?	No	Yes
Consistency	Are data within conditions and changes between conditions consistent?	Yes	No
	If changes are inconsistent with regard to level, trend, or variability, was that expected?	Yes	No
	Does inconsistency impede confidence in a functional relation?	No	Yes
Overlap	Are data highly overlapping between conditions? (e.g., are there many points in the intervention condition that are not improved relative to baseline?)	No	Yes
	If overlapping, does the degree of overlap improve over time? (e.g., initial intervention data points are overlapping, but later ones are not)	Yes	No
	Is overlap consistent across comparisons? (e.g., Do approximately the same number or per cent of data points overlap across A→B comparisons?)	Yes	No
	Was overlap expected a priori? (e.g., Was variability or a delay in treatment effect expected, given knowledge about participant behaviour and past research?)	Yes	No
	Does presence of overlap impede confidence in a functional relation? (Does the degree to which data are similar between conditions result in lower confidence for ≥ 1 comparisons?)	No	Yes
Immediacy	Are changes between tiers immediate, in the intended direction?	Yes	No
	If no, are delays in change consistent across tiers (e.g., if there is a 3 session delay in Tier 1, is there a 2–4 session delay in Tier 2?)	Yes	No
	Does lack of immediacy impede confidence in a functional relation?	No	Yes

Part 2: Conclusions Regarding Functional Relation

Did the design allow for at least three potential demonstrations of effect? Examples include three-tiered multiple baseline or probe designs with three different intervention start points, A–B–A–B and B–C–B–C designs, and ATD designs with at least three data points per condition. Common non-examples are multiple baseline and multiple probe designs with two tiers or three tiers but only two intervention start points, non-concurrent multiple baseline designs, and multitreatment designs with inadequate replications (e.g., A–B–A–C–D).	Yes	No
If no, STOP. No functional relation can be demonstrated.		
What is your determination regarding the presence of a functional relation?	Present	Not Present
How confident are you in your determination?	Not at all confident	Not very confident
How large is the effect?	Negative or null	Small
	Medium	Large

The visual analysis worksheet is intended for completion *for each dependent variable in each design*; in some manuscripts, multiple designs are present. For example, in an article with an A–B–A–B designs for each of two participants, one worksheet should be completed for each design. In an article with one multiple baseline design across participants, with two dependent variables (DVs), one worksheet should be completed for each DV.