	Microsoft	ShinyApps			R	Web calculator	SPSS	Microsoft	ASSIGNMENT REQUIREMENT
	IDIOGRAPHIC VARIABLES							**NOMOTHETIC VARIABLES**	**ASSIGNMENT REQUIREMENT**
	Excel	SingleCaseES	SCDA	Manalov Overlap	SCAN & SingleCaseES	Tau online calculator	Statistics	Excel	
		https://jepusto.shinyapps.io/SCD-effect-sizes/	https://tamalkd.shinyapps.io/scda/	https://manolov.shinyapps.io/Overlap/	https://jazznbass.github.io/scan-Book/	http://ktarlow.com/stats/tau/		Single-case-V8 excel spreadsheet calculator	
Data Managament									
Data file requirements	any	Copy + Paste	.txt, .csv or .xls	.txt	any	Copy & paste	SPSS data	manual input	n/a
Data input requirements	any	Phase A and B scores	Phase & score columns	"score" & "phase"	any	Phase A and B scores	Scores & phase	Pre & post score	n/a
Imputation features	No	No	No	No	Yes	No	Yes	n/a	No
Assess Outliers	No	No	No	No	Yes	No	Yes	n/a	No
Design Plotting Compatability									
A/B	Manual	Yes	Yes	Yes	Yes	No	Yes	n/a	Any quasi-experimental or SCED design
A/B-F/U	Manual	No	Yes	No	Yes	No	Yes	n/a	Any quasi-experimental or SCED design
ABC / ABA	Manual	No	Yes	No	Yes	No	Yes	n/a	Any quasi-experimental or SCED design
ABAB	Manual	No	Yes	No	Yes	No	Yes	n/a	Any quasi-experimental or SCED design
Visual Analysis									
Plot Function	Yes	Yes	Yes	Yes	Yes	No	Yes	n/a	Yes
Customisability	Highly	No	Some (can add manually	Some (can add manually i	Highly	No	Some	n/a	n/a
Central Tendency lines	Manual	No	Yes	Yes	Via non SCED packages	No	Some	n/a	Yes - median
Trend lines	Manual	No	Yes	Yes	Via non SCED packages	No	Some	n/a	Yes
SD Bands + Stability Lines	Manual	No	Yes	Yes	Via non SCED packages	No	No	n/a	No
Statistical Analysis									
Descriptive Statistics	Manual	No	No	Yes	Yes	No	Yes	n/a	Yes
Auto-correlation	No	No	No	No	Yes	No	Yes	n/a	Yes
Assess baseline trend	No	No	No	Yes	Yes	Yes	No	n/a	Yes
Normal distribution	No	No	No	No	Via non SCED packages	No	Yes	n/a	No
PND	Manual	Yes	No	Yes	Yes	No	Manual	n/a	Minimum of 3 non-overlap tests
PEM	Manual	Yes	No	Yes	Yes	No	Manual	n/a	Minimum of 3 non-overlap tests
PAND	Manual	Yes			Yes	No	Manual	n/a	Minimum of 3 non-overlap tests
NAP	No	Yes	No	Yes	Yes	No	Potentially	n/a	Minimum of 3 non-overlap tests
IRD	No	Yes	No	No	Yes	No	Potentially	n/a	Minimum of 3 non-overlap tests
Tau/TauU	No	Yes	No	Yes	Yes	Yes	Potentially	n/a	Yes
PEM-T	No	No	No	Yes	Yes	No	No	n/a	No
Log Odds + Response Ratios	No	Yes	No	Yes	Yes	No	Potentially	n/a	No
SMD	Manual	Yes	No	Yes	Yes	No	Potentially	n/a	No
Piecewise regression	No	No	No	No	Yes	No	Manual	n/a	No
Reliable change analysis	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Yes	Yes (for nomothetic outcomes)
Complexity to learn	Fair	Low	Low	Low	High	Low	Fair	Low	n/a
Best for	Flexibility and customising of plots.	Provides all the major non-overlap statistics and parametric ES for pairwise phase comparisons (statistical analysis can compare each pair of phases in any design).	Plotting all types of design with lots of trend line options.	Most detailed analysis of Tau & Tau-u ES. Also can do all stages of analysis in one place (apart from autocorrelation).	Able to perform all analyses and more for all types of design. High level of customisability to be able to produce high quality plots.	Very easy and quick assessment of baseline trend and clearly directed whether to use Tau or apply a baseline correction and use Tau-U.	Able to assess autocorrelation and provide lag plots easily.	Can calculate RCI and CSC for a single-case.	n/a
Limitations	All manual so more time consuming. Not able to assess baseline trend or Tau.More prone to errors if statistics done by hand.	Can only plot A/B phase designs and no option of adding trend lines.	Does not perform any statistical analysis. Trend line plots do not join up data points.	Can only handle A/B phase designs. Plots can be limited i.e. Trend line plots do not join up data points. Uses .txt file and upload errors are common.	Very diffcult to learn and use if not familiar with R.	Only performs Tau/Tau-U analysis so cannot be used alone. Tau analysis output is not as detailed as Manolov-Overlap shiny app.	Not obvious how/difficult to apply other types of SCED analysis and visualisation.	Need psychometric data of measure: reliability (alpha) for RCI and clinical/healthy norms for CSC	n/a