Guides to All 6 Scripts

Guide to Script for Experiment 1

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| Line # | Cell Heading |
| 19 | Creating an Experiment structure |
| 134 | Creating fields at the Experiment level that specify which subjects are in which groups |
| 154 | Defining CS trial type and computing basic stats |
| 222 | Aggregating statistics from the CS trials into fields at the Session & Subject levels |
| 276 | Defining ITI trial type and computing basic statistics |
| 318 | Aggregating statistics from the ITI trials into fields at the Session and Subject levels |
| 365 | Computing trial-by-trial CS-ITI poke rate differences and session level ITI-CS mean poke rate differences |
| 401 | Aggregating Session by Session Mean CS, ITI and ITI-CS poke rates to groups at Experiment level |
| 433 | Graphing Session-by-Session CS, ITI & Diff Poke Rate Means by Group |
| 470 | Creating ANOVA Arrays |
| 510 | CS ANOVA |
| 561 | ITI ANOVA |
| 587 | ITI-CS ANOVA |
| 629 | Computing CSoff Informativeness |
| 669 | Computing Trials to Acquisition |
| 710 | CDFs of Trials to Acquisition By Group |
| 719 | Median Acquisition Trials by Group |
| 733 | Mean CS-ITI Rate Differences Post Acquisition |
| 750 | Cumulative USs at Acquisition |
| 770 | Pre- & Post-Acquisition differences in mean poke rate during CSs and ITIs |
| 799 | Graphing Differences between poke rates pre and post-acquisition for CSs and ITIs |
| 828 | Peak Poke Rate Session vs CS Duration |
| 896 | Computing IRIs during ITIs and aggregating to Subject level |
| 903 | Post-Acquisition Within CS Poke Rate Profiles |
| 1015 | Filling in ExpNotes field at Experiment level |

Guide to Script for Experiment 2

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| Line # | Cell Heading |
| 20 | Creating an Experiment structure |
| 124 | Defining CS trial type and computing basic stats |
| 170 | Aggregating statistics from the CS trials into fields at the Session and Subject levels |
| 202 | Defining ITI trial type and computing basic stats |
| 238 | Aggregating statistics from the ITI trials into fields at the Session and Subject levels |
| 295 | Computing trial-by-trial CS-ITI poke rate differences and session level ITI-CS mean poke rate differences |
| 327 | Aggregating Session by Session Mean CS, ITI and ITI-CS poke rates to groups at Experiment level |
| 372 | Graphing Session-by-Session CS, ITI & Diff Poke Rate Means by Group |
| 393 | Creating ANOVA Arrays |
| 437 | CS ANOVA |
| 485 | ITI ANOVA |
| 509 | ITI-CS ANOVA |
| 551 | Computing CSoff Informativeness |
| 591 | Computing Acquisition Points (& plotting group CDFs) |
| 646 | Adding field at Experiment level with median acquisition trial for each group |
| 684 | Mean rate difference post acquisition |
| 702 | Pre- & Post-Acquisition differences in mean poke rate during CSs and ITIs |
| 729 | CDFs of Differences btw pre-acquisition poke rate and post-acquisition poke rate in both CS & ITI |
| 756 | Scatter plot of Trials to Acq Vs Informativeness |
| 790 | Was there an increase in responding during the 30s "trace" interval at start of each ITI, the interval that terminated with the onset of the  reinforcement generating process? Answer: No |
| 809 | Distribution of Post-Acquisition Within-CS Poking |
| 849 | Graphing Subject-by-Subject Within-CS, Post-Acq Poke Frequency Profiles |
| 878 | Text put in ExpNotes |

Guide to Script for Experiment 3

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| Line # | Cell Heading |
| 12 | Creating an Experiment structure |
| 138 | Defining CS trial type and computing basic stats |
| 231 | Defining ITI trial type and computing basic statistics |
| 309 | Computing trial-by-trial CS-ITI poke rate differences |
| 327 | Aggregating Session by Session Mean CS, ITI and ITI-CS poke rates to groups at Experiment level |
| 338 | Aggregating Session by Session Mean CS, ITI and ITI-CS poke rates to groups at Experiment level |
| 372 | Graphing Session-by-Session CS, ITI & Diff Poke Rate Means by Group |
| 410 | Creating Arrays for ANOVAs |
| 461 | CS ANOVA |
| 531 | ITI ANOVA |
| 550 | ITI-CS ANOVA |
| 595 | Plotting just the fixed and just the variable groups & just the 30 & just the 50s groups |
| 621 | Computing CSoff Informativeness |
| 661 | Computing Acquisition Points (& plotting Group CDFs) |
| 707 | Median Trials to Acquisition |
| 729 | Mean CS-ITI rate difference post acquisition |
| 747 | Pre- & Post-Acquisition differences in mean poke rate during CSs and ITIs |
| 778 | Distributions of the pre- and post-acq poke rate differences |
| 801 | Post-Acquisition Pks/s in Decile Bin Widths Up to Mean CS Dur for Variable CSs (with plotting code) |
| 875 | Post-Acquisition Pks/s in Decile Bins for Fixed CSs (with plotting code) |
| 941 | Aggregating Post-Acq CS Decile Profiles by Group to Experiment level |
| 951 | ANOVAs for effect of fixed vs variable CS on Decile Profile |
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Guide to Script for Experiment 4

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| Line # | Cell Heading |
| 10 | Creating an Experiment structure |
| 142 | Creating fields at the Experiment level that specify which subjects are in which groups |
| 158 | Setting Phase fields |
| 217 | Defining CS trial type and computing basic stats |
| 263 | Aggregating statistics from the CS trials into fields at the Session & Subject levels |
| 320 | Defining ITI trial type and computing basic statistics |
| 357 | Aggregating statistics from the ITI trials into fields at the Session and Subject levels |
| 413 | Trial-by-trial CS-ITI poke rate differences and session level ITI-CS mean poke rate differences |
| 446 | Trial-by-trial CS-ITI poke rate differences and session level ITI-CS mean poke rate differences |
| 481 | Aggregating Session by Session Mean CS, ITI and ITI-CS poke rates to groups at Experiment level |
| 512 | Graphing Session-by-Session CS, ITI & Diff Poke Rate Means by Group |
| 552 | Building Arrays for ANOVAs |
| 649 | CS ANOVA |
| 706 | ITI ANOVA |
| 736 | ITI-CS Rate Difference ANOVA |
| 780 | Computing CSoff Informativeness |
| 821 | Computing Trials to Acquisition |
| 864 | CDFs of Trials to Acquisition By Group |
| 873 | Median Acquisition Trials by Group |
| 884 | Pre- & Post-Acquisition differences in mean poke rate during CSs and ITIs |
| 966 | CDFs of Differences between poke rates pre and post-acquisition for CSs and ITIs |
| 990 | Subject-by-Subject Within-CS, Post-Acq Poke Rate Profiles |
| 1041 | Filling in ExpNotes field at Experiment level |

Guide to Script for Experiment 5

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| Line # | Cell Heading |
| 10 | Creating an Experiment structure |
| 79 | Creating fields at the Experiment level that specify which subjects are in which groups |
| 101 | Defining CS trial type and computing basic stats |
| 148 | Aggregating statistics from the CS trials into fields at the Session & Subject levels |
| 178 | Defining ITI trial type and computing basic statistics |
| 216 | Aggregating statistics from the ITI trials into fields at the Session and Subject levels |
| 276 | Session level mean CS pk rate, ITI pk rate and CS-ITI pk rate differences |
| ?446 | Trial-by-trial CS-ITI poke rate differences and session level ITI-CS mean poke rate differences |
| 310 | Aggregating Session by Session Mean CS, ITI and ITI-CS poke rates to groups at Experiment level |
| 332 | Graphing Session-by-Session CS, ITI & Diff Poke Rate Means by Group |
| 369 | Building Arrays for ANOVAs |
| 479 | CS ANOVA |
| 559 | ITI ANOVA |
| 594 | ITI-CS Rate Difference ANOVA |
| 656 | Computing CSoff Informativeness |
| 695 | Computing Trials to Acquisition |
| 765 | CDFs of Trials to Acquisition By Group |
| 777 | Median Acquisition Trials by Group |
| 794 | Post Acquisition CS-ITI Response Rate Diffs |
| 830 | Post- Pre- Acquisition Mean Poke Rate Differences for CS and ITI |
| 883 | Subject-by-Subject Within-CS, Post-Acq Poke Rate Profiles |
| 962 | Filling in ExpNotes field at Experiment level |

Guide to Script for Experiment 6

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| Line # | Cell Heading |
| 3 | Creating an Experiment structure |
| 43 | Creating fields at the Experiment level that specify which subjects are in which groups |
| 65 | Defining CS trial type and computing basic stats |
| 146 | Phase: There were two phases for each subject, an acquisition phase and a Resistance-to-Reinforcement phase |
| 181 | Defining ITI trial type and computing basic stats |
| 260 | Computing trial-by-trial CS-ITI poke rate differences (CS poke rate on each trial minus the poke rate during the preceding ITI) |
| 278 | Confining analyses to the acquisition phases |
| 299 | Subject-level Session-by-Session mean CS-pk-rate, ITI-pk-rate and Cs-ITI pk-rate difference |
| 315 | Aggregating Session by Session Mean CS, ITI and ITI-CS poke rates to groups at Experiment level |
| 337 | Graphing Session-by-Session CS, ITI & Diff Poke Rate Means by Group |
| 376 | Coping with bad or missing data |
| 391 | Creating arrays to be fed to CS ANOVA |
| 434 | CS ANOVA |
| 456 | ITI ANOVA |
| 478 | ITI-CS Poke Rate Difference ANOVA |
| 502 | Trials to Acquisition |
| 589 | Post-acquisition response-rate diffs |
| 669 | Informativeness |
| 707 | Subject-by-Subject Within-CS, Post-Acq Poke Rate Profiles |
| 787 | Explanatory Note (still needed as of 05/14/19) |