This	s is an extract fror	n an exploratory e	exercise we undertook as part of	the ESRC eBook (ES/K007246/1)	project			
				ements of an early workflow being		an Brunton-S	Smith	
				ng young people's participation in o	online crime.			
Stage and	Category	Sub-category	lar purposes only: it is not desigr Question / objective	How achieved with software	Datasets / other objects	Other objects passed	Blocks	Decision points
	Hypotheses / Design		Lit review; research questions: Offending, Crime & Justice Survey (OCJS) provides potential opportunity to explore these. OCJS downloaded & initial exploration. Check details of OCJS tech reports.					
1	Data prep	Save/load	Start with the first cohort	Upload 2003 dataset	2003 v.1			Use another cohort? (there were 5); how about longitudinal analysis?
2	Data exploration	Table	What do the (potential) dependent variables look like? Are they suitable for modelling as is?	1-way tabulation (needs options) of each dependent variable of interest				
3	Data prep	Generate new / overwrite variables	No, need to recode some of the categories	Create new dependent variables (loops thru them) based on old with recoding of certain values, including missing values	2003 v.2		A	
4	Data	Table	What do the recoded dependent variables look like? Are they suitable for modelling now?	1-way tabulation (needs options) of new dependent variables				
5	exploration		Better, but some variables have a lot of refusals; how does this break down by age?	2-way tabulation (needs options) of new dependent variables vs age				

6	Data prep	Save/load	Reveals too many refusals, so explore another cohort	Upload 2004 dataset	2004 v.1		Use another cohort? (there were 5); how about longitudinal analysis?
7	Data exploration	Table	What do the (potential) dependent variables look like? Are they suitable for modelling as is?	1-way tabulation (needs options) of each dependent variable of interest			
8	Data prep	Generate new / overwrite variables	No, need to recode some of the categories	Create new dependent variables based on old with recoding of certain values	2004 v.2		
9			What do the recoded dependent variables look like? Are they suitable for modelling now?	1-way tabulation (needs options) of new dependent variables		A	
10	Data exploration	Table	How does this break down by age? Happier: no problems with high refusal; slightly high "Don't know"s; poss consider MI in future	2-way tabulation (needs options) of new dependent variables vs age			Deal with missing data via another means: multiple imputation?
11	Data prep	Generate new / overwrite	Generate new dependent variable, based on old, but with more intuitive name & with different missing value code	Create new dependent variable based on old with recoding of certain values	2004 v.3		
12-		variables	Generate new dependent variable, based on values in two old variables, with more intuitive name	Create new dependent variable based on values in two old variables with recoding of certain values	2004 v.4	В	
12	Data exploration	Table	What does new dependent variable look like: e.g. any apparent errors in what I've done?	1-way tabulation (needs options) of new dependent variable			
			here we break off	from this initial stage of the wo	rkflow		

			an	d look at a later section…				
	Data exploration	Table	What do the family relations- related variables look like? Are they suitable for submitting to factor analysis as is?	1-way tabulation (needs options) of each variable of interest				
37	Data prep	Generate new / overwrite variables	No, need to recode some of the categories	Create new dependent variables (loops thru them) based on old with recoding of certain values	2004 v.22		В	
	Data exploration	Table	What do my new variables look like?	1-way tabulation (needs options) of independent variables of interest				
38	Model fit	Correlation	I'm going to use polychoric correlation to facilitate factor analysis (FA) with my binary variables. I'll first look at a straightforward correlation matrix	Correlate variables wish to submit to FA				
39	Model fit			Generate a matrix of polychoric correlations				
40				Display this polychoric correlation matrix		Using model output from #39		
41	Post-process		Save polychoric correlation matrix under different name		Using model output from #39	с		
42	model	Need to know the sample size	Display sample size of polychoric matrix		Using model output from #39			
			for factormat function	Assign this sample size to a global setting		Using model output from #39		

	Post-process model Model fit		How did the FA go?	Rotate FA & inspect resultsGenerate a matrix of polychoric correlations (with two fewer variables)Display this polychoric correlation matrixSave polychoric correlation matrix under different name	Using model output from #39 Using model output from #44a Using model output from		
				correlations (with two fewer variables) Display this polychoric correlation matrix Save polychoric correlation	model output from #44a Using model		
	Post-process			correlation matrix Save polychoric correlation	model output from #44a Using model		
	Post-process				model		
44			some low loadings; will drop two variables and run again		#44a	С	
	model			Display sample size of polychoric matrix	Using model output from #44a		
				Assign this sample size to a global setting	Using model output from #44a		
	Model fit			Run factor analysis (using factormat function)	Using model output from #44a		
Р	Post-process model			Rotate FA & inspect results	Using model output from #44a		
			Create factors of interest	Using predict function			