

Data Analysis				
	what is it ?	analysis	analysis method	tools
Quantitative	number	Numerical methods to ascertain size, magnitude, amount or size of something	<div><div>statistical analysis</div><div>steps</div><div><div>data cleaning</div><div>coding data</div><div>descriptive statistics</div><div>statistical testing</div><div>identifying relationships between factors</div></div><div><div>modify inappropriate formatting</div><div>screen the data for possible errors</div><div>reasonableness check</div><div>group collected from multiple channels' data</div><div>convert original data to numeric</div><div><div>understand natural of data set</div><div>Mean: Add up values and divide by number of data points</div><div>Median: Middle value of data when ranked</div><div>Mode: Figure that appears most often in the data</div><div>Standard deviation: Amount of variation in data</div></div><div>significance test for comparing means</div><div>correlation testing</div></div></div>	<div><div>statistical analysis</div><div>excel</div><div>spss</div><div>R</div><div><div>simple functionality</div><div>Comprehensive with advance functions, GUI</div><div>Expensive</div><div>Comprehensive, scriptable</div></div></div>
			<div>question design & data analysis</div> <div>closed question</div> <div>analyzed quantitatively</div>	
Qualitative	words (quotes, description)	Expresses the nature of elements and is represented as themes, patterns, stories	<div><div>Basic Qualitative Analysis</div><div>looking for critical incidents</div><div>identifying themes</div><div>categorizing data</div><div>in practice, combination of inductive and deductive</div></div> <div><div>specific incidents</div><div>using rest of the data collected analysis</div><div>good for exploratory studies</div><div>affinity diagram</div><div>top-down approach</div><div>classified data</div><div>help to identify patterns and themes</div><div>according to set of categories</div></div>	<div><div>qualitative Analysis</div><div>nVivo</div><div>Atlasti</div><div><div>Supports annotation and coding of data including PDF documents, photos, videos and audio files.</div><div>Latest version allows coding directly onto video and audio files without transcription.</div></div></div>
	images (vignettes of activity, photo)		<div><div>Interaction Analysis</div><div>definition</div><div>includes</div></div> <div><div>investigate and understand interactions between people and between people and artefacts</div><div>Based on empirical observations such as videos</div><div>Inductive process in teams, collaboratively</div><div>Contents of the material is logged</div><div>Materials are extracted, classified, or removed</div><div>Instances of a salient event are assembled and played one after the other</div><div>The team of researchers studies the assemblage together</div></div>	