The Data Analysis Pipeline, The Big Picture of elementary inference, and Identifying Data Types

Background

The word "statistics" derives from 'State,' originally referring to the data gathered to assist the administration of a Nation.

But today, the term more broadly encompasses the application of scientific principles for understanding and improving the world.

If research is the vehicle that takes us from ignorance to knowledge, then statistics is what's under the hood (and also how the car gets built). Statistics is the technology of data.

The Data Analysis 'pipeline':

RESEARCH?) STUDY DESIGN

QUESTION -> STUDY DESIGN

(NAM DOES IT

(NINL GET MEASURED)

CONNECT TO

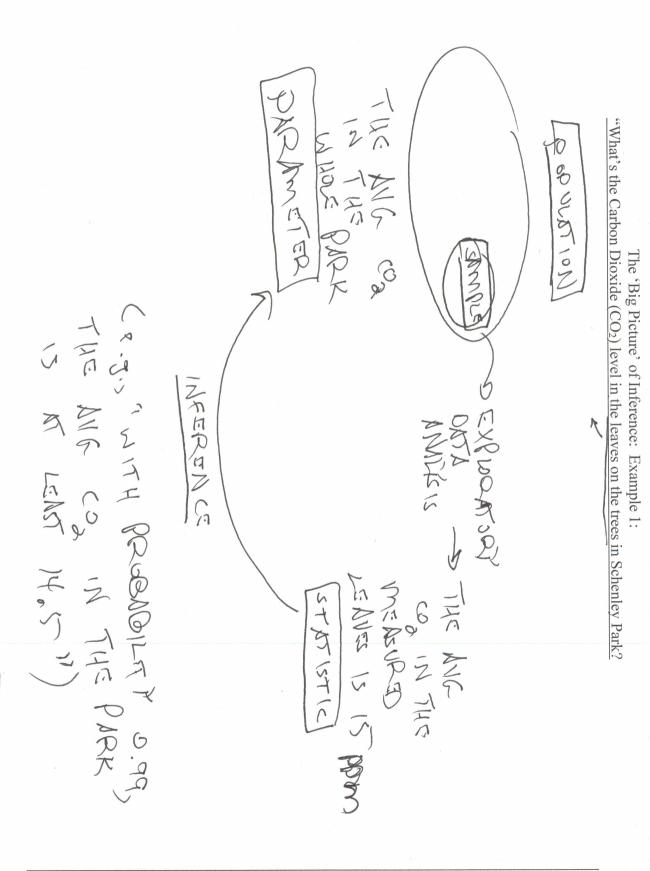
CONNECT TO

AND HOW? HOW IS

PRIOR RESEARCH?)

YHE SAMPLE OBTAINED?) CO LUST DATA (ANT ISSUES PROGREMS?) > EXPLORATOR? ANALIES (STARTE CIVING 1NFORMAL ANSWERS TO OUR QUESTION) MAKE STATISTICAL DECKIONS > communicate (INVOLVES MOSTE) CRITIQUE YOUR

The 'Big Picture' of elementary inference



JODEN THERE