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research methodology (2023)

research methodology refers to the systematic and scientific approach used to conduct research investigate problems and gather data and information for a specific purpose it involves the techniques and procedures used to identify collect analyze and interpret data to answer research questions or solve research problems the research methods you use depend on the type of data you need to answer your research question if you want to measure something or test a hypothesis use quantitative methods if you want to explore ideas thoughts and meanings use qualitative methods what is research methodology research methodology simply refers to the practical how of a research study more specifically it s about how a researcher systematically designs a study to ensure valid and reliable results that address the research aims objectives and research questions published on august 25 2022 by shona mcombes and tegan george revised on november 20 2023 your research methodology discusses and explains the data collection and analysis methods you used in your research a key part of your thesis dissertation or research paper the methodology chapter explains what you did and how you did it allowing this guide provides an overview of research methods how to choose and use them and supports and resources at uc berkeley as patten and newhart note in the book understanding research methods research methods are the building blocks of the scientific enterprise the type of knowledge you aim to produce the type of data you will collect and analyze the sampling methods timescale and location of the research this article takes a look at some common distinctions made between different types of research and outlines the key differences between them guiding decision making processes in professional settings decisions often

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