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This chapter discusses the use of directed acyclic graphs (DAGs) for causal inference in the observational social sciences. It focuses on DAGs ' main uses, discusses central principles, and gives applied examples. DAGs are visual representations of qualitative causal assumptions: They encode researchers ' beliefs about how the world works.

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This chapter gives an introduction to causal modeling, in particular to causal Bayesian networks. It starts by introducing causal models and their importance. Then causal Bayesian networks are described, including two types of causal reasoning, prediction and counterfactuals.

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BEN GOODRICH [continued]: you can check out Felix Elwert's 2013 chapter entitled Graphical Causal Models. For a more advanced treatment, you can look at Judea Pearl's 2009 book called Causality. Or you can look at the manual on the DAGitty website, which is written by Johannes Textor.

[An Introduction to Graphical Causal Models—SAGE Research...](#)

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[Handbook of Graphical Models—Routledge Handbooks](#)

In statistics, econometrics, epidemiology, genetics and related disciplines, causal graphs are probabilistic graphical models used to encode assumptions about the data-generating process. They can also be viewed as a blueprint of the algorithm by which Nature assigns values to the variables in the domain of interest. Causal graphs can be used for communication and for inference. As communication devices, the graphs provide formal and transparent representation of the causal assumptions that rese

[Causal graph—Wikipedia](#)

The factorization properties underlying graphical models facilitate tractable computation with multivariate distributions, making the models a valuable tool with a plethora of applications. Furthermore, directed graphical models allow intuitive causal interpretations and have become a cornerstone for causal inference.

[Handbook of Graphical Models | Taylor & Francis Group](#)

As we develop our account of graphical causal models in more detail, we will be able to say more precisely what it means for one variable to be a direct cause of another. While we will not define " cause ", causal models presuppose a broadly difference-making notion of causation, rather than a causal process notion (Salmon 1984, Dowe 2000) or a mechanistic notion (Machamer, Darden, & Craver ...

[Causal Models \(Stanford Encyclopedia of Philosophy\)](#)

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[Altmetric—Handbook of Causal Analysis for Social Research](#)

This chapter discusses the use of directed acyclic graphs (DAGs) for causal inference in the observational social sciences. It focuses on DAGs ' main uses, discusses central principles, and gives applied examples. DAGs are visual representations of qualitative causal assumptions: They encode researchers ' beliefs about how the world works.

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[Structural Equation Models for Studying Causal Phenotype...](#)

Because causal graphical models are non-parametric, they cannot tell us what the relationship between two variables are, they only give us an idea if there is a relationship between the two variables through the notion of conditional independence. It does this using the idea of "paths" between variables: if there are no unblocked paths between two variables, they are independent.