

Applied Statistical Analysis

EDUC 6050

Week 12

Finding clarity using data

Today

Moderation vs.

Mediation

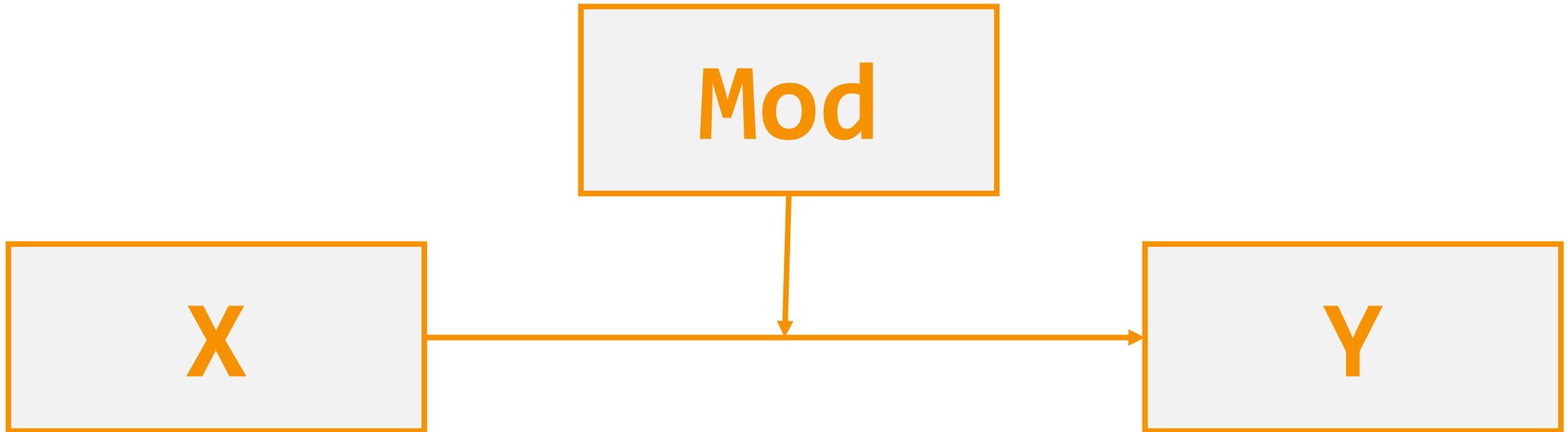
Mediation

- Tells us about the path of an effect
 - from one variable to an intermediate one then to the outcome
- Jamovi does not have built in ways to performs this
- “The effect of X goes through M to Y”

Moderation

- Synonym for interaction
- Jamovi performs this
- “The effect of X on Y depends on M”

Moderation



Mediation



Mediation

Use specialized software for this (Jamovi can't do it yet)

Be aware of it but you do not need to know how to do it for this class

Why Do We Talk About Mediation?

Helps us think more about how things are
actually happening in the real world

Helps us think about confounding better

The Four Elemental Confounds

The Fork

$X \leftarrow Z \rightarrow Y$

The Pipe

$X \rightarrow Z \rightarrow Y$

The Collider

$X \rightarrow Z \leftarrow Y$

The Descendant

$X \rightarrow Z \rightarrow Y$

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**No Application
This Week**

Questions?

Please post them to the
discussion board before
class starts