

The following mediation and moderation content is from the interactive R book by Alexander Demos & Carlos Salas.

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The full book with lots more content is available from here:

<http://ademos.people.uic.edu/index.html>

The Mediation Package

- Based on Preacher & Hayes (2004) - more power than Sobel test
- well suited for small sample sizes.
- Need to build two models - one for direct effect of our predictors and one for the effect of our predictor and mediator.

```
> library(mediation)
> fitM <- lm(M ~ X, data = Meddata) #IV on M; Hours since dawn predicting
coffee consumption
> fitY <- lm(Y ~ X + M, data = Meddata) #IV and M on DV; Hours since dawn and
coffee predicting wakefulness
```

- Then use the `mediate()` function in the `mediation` package to compare the two models - allows us to estimate effect of the mediator...