

# Model visualisation (with ggplot2)

Hadley Wickham<sup>1,\*</sup>

1. Rice University, Houston TX.

\* Contact author: [hadley@rice.edu](mailto:hadley@rice.edu)

**Keywords:** mixed model, visualisation, ggplot2, graphics, model diagnosis

R has many packages for visualising data, in a huge number of flexible ways. Unfortunately the capabilities for visualising statistical models are much more limited, and most packages only provide a fixed set of visualisations with very little ability to customise the view. This talk introduces the new tools provided by ggplot2 for visualising models and discusses the philosophy behind my approach. You'll see concrete examples of how keeping apart computation and presentation pays off with the ability to construct visualisations tailored your problems. My examples will focus on mixed models, but the principles apply to all statistical models.