

### 9.3: Graphing the means

In our example above we showed you two bar graphs of the very same means for our 2x2 design. Even though the graphs plot identical means, they look different, so they are more or less easy to interpret by looking at them. Results from 2x2 designs are also often plotted with line graphs. Those look different too. Here are four different graphs, using bars and lines to plot the very same means from before. We are showing you this so that you realize **how you graph your data** matters, and it makes it more or less easy for people to understand the results. Also, how the data is plotted matters for what you need to look at to interpret the results.

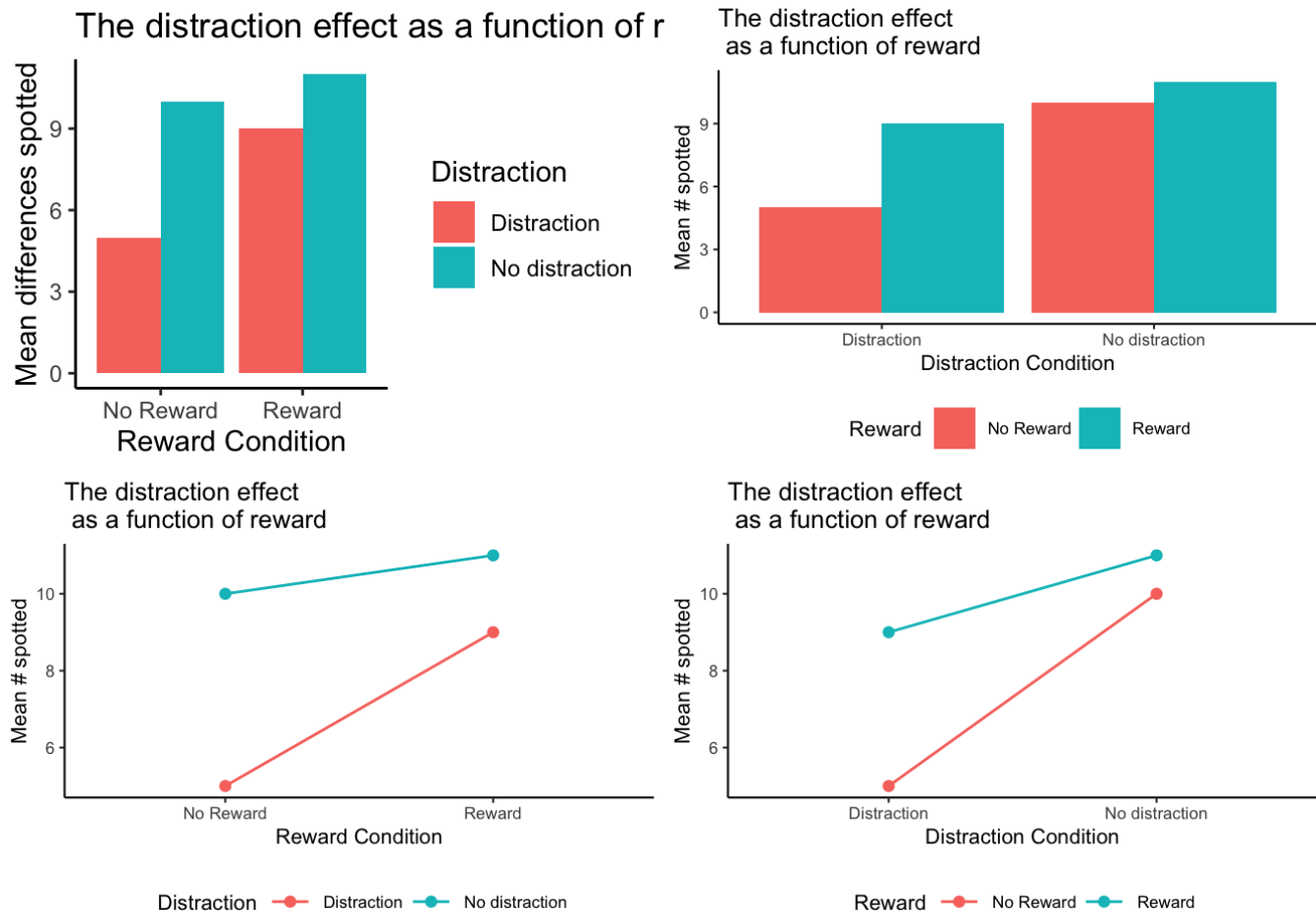


Figure 9.3.1: The same example means plotted using bar graphs or line graphs, and with Distraction or Reward on the x-axis.

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