**June 2018 POTM: [magick]-ally add images to your figures**

As I was creating a basic visualization of the sucralose and acetaminophen data we have collected from our Pellicer Creek SWMP site for an upcoming meeting, I thought it would be neat to be able to have our logo embedded into the plot.

After doing a bit of googling, I learned about this great package in R called '[magick](https://cran.r-project.org/web/packages/magick/vignettes/intro.html" \l "combining" \t "_blank)' - and it is magical. It is a package that simplifies image processing in R and has lots of functionality. I ended up using it to combine images.

**Starting with the logo**

For this code, I used 'ggplot2', 'magick', and 'magrittr' packages, which can all be downloaded from CRAN. Before running the code, I already produced the plot (from above) using another script and saved it as a .png file, which I cleverly named 'plot1.png'.

With the 'image\_read' function from 'magick', images can be read in directly from a file path, URL, or even as a raw vector with image data. Once the image has been read into R, there are [a variety of things you can do with it](https://cran.r-project.org/web/packages/magick/vignettes/intro.html#animation). I have merely scaled down the image for the purposes of my plot, but you could cut, edit, apply filters and effects, etc.

Boom! Just a few lines of code (without my comments) and you have a logo on your plot!

Remember how I said that images can be read in from a URL? By using the great features of 'magick', I have indicated a potential cause of the spike in sucralose below...

Wingardium leviosa" indeed, Mr. Potter.

## And here is one of my favorite parts...

**It works for .gif files, too**! The animation component of .gifs means that we will need to set them as frames in an animation.

## See? It's it magical?

If you use R and feel like trying out the 'magick' package, send along some of your creations! Daniel P. Hadley's [use of Vincent Vega](https://www.danielphadley.com/ggplot-logo/) in a graph is certainly one of my favorites...