Getting started

Let's get started by loading **officer**.

```
library(officer)
```

Next, we'll create a PowerPoint object in R using the **read_pptx** function.

```
pres <- read_pptx()
```

To add a slide, we use the **add_slide** function. The first slide we'll create is the title slide. We specify the type of slide in the *layout* parameter. There's several other possibilities here including "Title and Content", "Blank", "Title Only", "Comparison", "Two Content", and "Section Header".

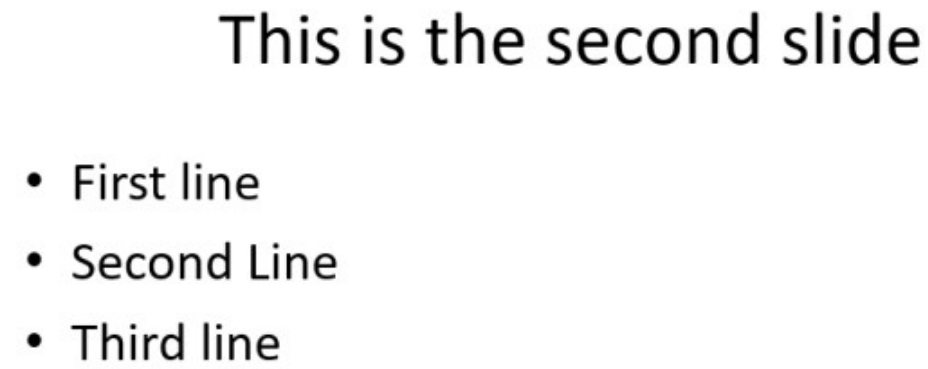
Secondly, we use **ph_with** to add the title text.

```
# add title slide
pres <- add_slide(pres, layout = "Title Only", master = "Office Theme")

# add Title text
pres <- ph_with(pres, value = "My first presentation", location =
ph_location_type(type = "title"))
```

Next, let's add another slide. This time we'll have a title and content.

```
pres <- add_slide(pres, layout = "Title and Content", master = "Office Theme")
pres <- ph_with(pres, value = "This is the second slide", location =
ph_location_type(type = "title"))
pres <- ph_with(pres, value = c("First line", "Second Line", "Third line"),
location = ph_location_type(type = "body"))
```



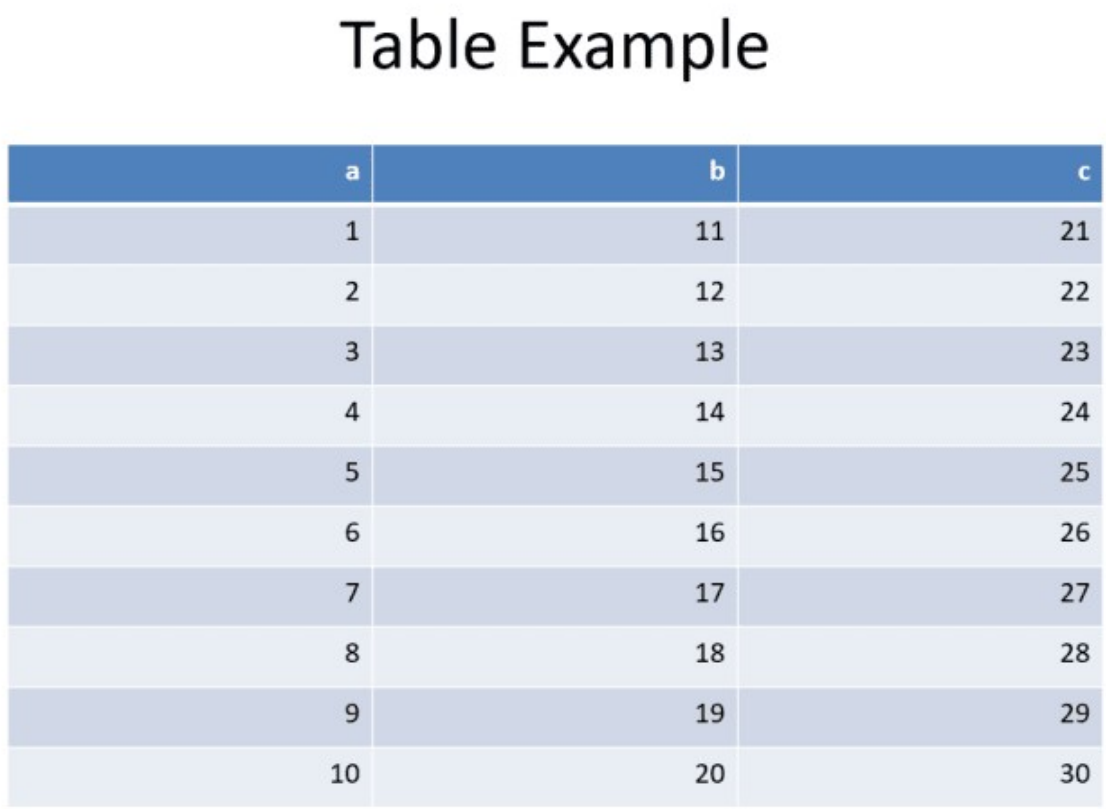
How to add tables

Now, what if we want to add a table? Let's create a sample data frame and add it to a new slide. Again, we'll use **ph_with** to add the content (data frame in this case) to the new slide. This time we just need to set the *value* parameter equal to our data frame object.

```
# create sample data frame
frame <- data.frame(a = 1:10, b = 11:20, c = 21:30)

# create slide to hold table
pres <- add_slide(pres, layout = "Title and Content", master = "Office Theme")
pres <- ph_with(pres, value = "Table Example", location = ph_location_type(type
= "title"))

# add data frame to PowerPoint slide
pres <- ph_with(pres, value = frame, location = ph_location_type(type = "body"))
```



a	b	c
1	11	21
2	12	22
3	13	23
4	14	24
5	15	25
6	16	26
7	17	27
8	18	28
9	19	29
10	20	30

Adding plots and images

Plots and images can also be added to the PowerPoint document. In the code below we add a **ggplot** object to a new slide.

```
library(ggplot2)
pres <- add_slide(pres, layout = "Blank", master = "Office Theme")
sample_plot <- ggplot(data = frame) + geom_point(mapping = aes(1:10, a),
                                      size = 3) + theme_minimal()

pres <- ph_with(pres, value = sample_plot, location = ph_location_fullsize())
```

External images can be loaded like this:

```
pres <- add_slide(pres)
pres <- ph_with(pres, external_img("sample_image.png", width = 2, height = 3),
```

```
                location = ph_location_type(type = "body"), use_loc_size = FALSE
)
```

Note how in this case, we wrap the name of the image file along with the width and height sizes we want inside the **external_img** function.

Adjusting font and colors

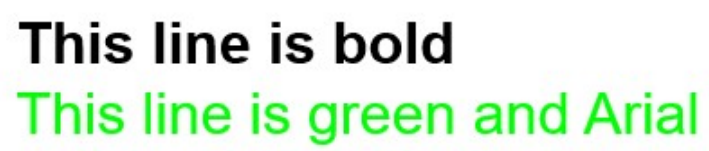
Font sizes and colors can be adjusted using the **fp_text** function. In the example below we created two paragraphs – the first one is bold, while the second one is green.

```
# create bold text object with size 24 font
bold <- fp_text(font.size = 24, bold = TRUE)

# create green Arial text object with size 24 font
green <- fp_text(font.size = 24, color = "green", font.family = "Arial")

# create block list of two paragraphs with the above font specifics
pars <- block_list(fpar(ftext("This line is bold", bold)), fpar(ftext("This line
is green and Arial", green)))

# add slide with paragraphs
pres <- add_slide(pres, layout = "Title and Content", master = "Office Theme")
%>% ph_with(pars, location = ph_location_type(type = "body"))
```



Adding hyperlinks

Lastly, we can add hyperlinks to our presentation using the **ph_hyperlink** function. Below, we create a hyperlink with the text “Click Here” that points to https://theautomatic.net.

```
pres <- add_slide(pres)

pres <- ph_with(pres, "Click Here", location = ph_location_type(type = "body"))
pres <- ph_hyperlink(pres, href = "https://theautomatic.net")…
```