## The officer package

```
read_pptx("blank.pptx") %>%
 # Title Slide
 add_slide(layout="Title Slide", master="Office Theme") %>%
 ph_with_text(type = "ctrTitle", str = "If housing inventory is so tight, why are so many
 ph_with_text(type = "subTitle", str = "A PowerPoint Summary of http://lenkiefer.com/2017.
 ph with text(type = "ftr", str = myftr ) %>%
 # Summary Slide:
 add_slide(layout = "Title and Content", master = "Office Theme") %>%
 ph with text(type = "title", index=1,str = "Summary") %>%
 ph_with_text(type="body",str = intro ) %>%
 ph_with_text(type = "ftr", str = myftr ) %>%
 ph with text(type = "sldNum", str = "1" ) %>%
 ph_with_text(type = "dt", str = format(Sys.Date(), "%B %d,%Y")) %>%
 # Slide with Chart 1:
 add_slide(layout = "Content with Caption", master = "Office Theme") %>%
 ph with text(type = "body", index=2,str = capl) %>%
 ph with img(type = "body", index = 1, src = "img/chart1.png") %>%
 ph with text(type = "title", index=1,str = "Homeowner and rental vacancy rates have decl:
 ph with text(type = "ftr", str = myftr ) %>%
 ph_with_text(type = "sldNum", str = "2" ) %>%
 ph_with_text(type = "dt", str = format(Sys.Date(), "%B %d, %Y")) %>%
 # Slide with Chart 2:
 add_slide(layout = "Content with Caption", master = "Office Theme") %>%
 ph_with_text(type = "body", index=2,str = cap2) %>%
 ph with img(type = "body", index = 1, src = "img/chart2.png") %>%
 ph_with_text(type = "title", index=1,str = "More homes held off market") %>%
 ph_with_text(type = "ftr", str = myftr ) %>%
 ph_with_text(type = "sldNum", str = "3" ) %>%
 ph with text(type = "dt", str = format(Sys.Date(), "%B %d, %Y")) %>%
 # Slide with Chart 3:
 add_slide(layout = "Content with Caption", master = "Office Theme") %>%
 ph_with_text(type = "body", index=2,str = cap3) %>%
 ph with img(type = "body", index = 1, src = "img/chart3.png") %>%
 ph_with_text(type = "title", index=1,str = "Growth comes from other category") %>%
 ph_with_text(type = "ftr", str = myftr ) %>%
 ph_with_text(type = "sldNum", str = "4" ) %>%
 ph_with_text(type = "dt", str = format(Sys.Date(), "%B %d, %Y")) %>%
 # Slide with Chart 4:
 add_slide(layout = "Content with Caption", master = "Office Theme") %>%
 ph_with_text(type = "body", index=2,str = cap4) %>%
 ph with img(type = "body", index = 1, src = "img/chart4.png") %>%
 ph_with_text(type = "title", index=1,str = "Breakdown of the other category") %>%
 ph with text(type = "ftr", str = myftr ) %>%
 ph_with_text(type = "sldNum", str = "5" ) %>%
 ph_with_text(type = "dt", str = format(Sys.Date(), "%B %d, %Y")) %>%
 # Slide with Chart 5:
 add_slide(layout = "Content with Caption", master = "Office Theme") %>%
 ph_with_text(type = "body", index=2,str = cap5) %>%
 ph_with_img(type = "body", index = 1, src = "img/chart5.png") %>%
 ph with text(type = "title", index=1,str = "Distribution of other category over time") %:
 ph_with_text(type = "ftr", str = myftr ) %>%
 ph_with_text(type = "sldNum", str = "6" ) %>%
 ph_with_text(type = "dt", str =format(Sys.Date(),"%B %d,%Y")) %>%
 # Print to save powerpoint
 print( target = "Housing Vacancy Blog Post.pptx") %>%
 invisible()
```

```
library(officer)
x <- read pptx()
knitr::kable(layout properties ( x = x, layout = "Title Slide", master = "Office Theme" ))
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36 Office Theme
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knitr::kable(layout properties(x = x, master="Office Theme"))
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Office Theme
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Office Theme
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```

From http://lenkiefer.com/2017/09/23/crafting-a-powerpoint-presentation-with-r/

## Conclusion

- Keeping text and code together allows for easy reproduction of documents
- This also ensures that there are no mistakes in the results, since the code to create them is already in the raw document
  - No copy/paste errors
- This also allows for a relatively easy revision cycle