# 06: Figures and tikzdevice

### Boris Veytsman

TUG18 knitr workshop; July 2018\*

In this tutorial we use Antykwa Toruńska for the body text and Inconsolata for the typewriter:

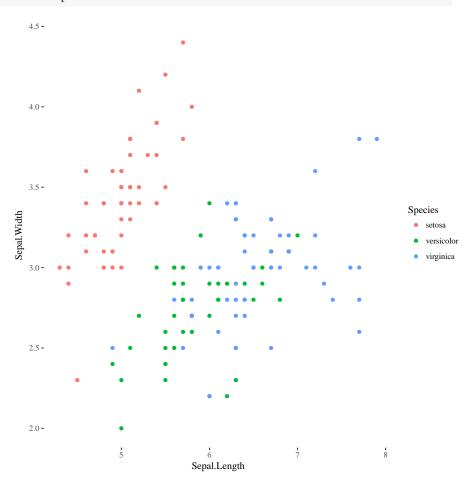
\usepackage[math]{anttor}
\usepackage{inconsolata}

```
Chunk: libraries

library(tidyverse)  # The Swiss Army knife of data processing
library(ggthemes)  # A better look for plots
theme_set(theme_tufte())
library(Hmisc)  # for the latex tabl
```

<sup>\*</sup>This work is licensed under a Creative Commons Attribution 4.0 International License (CC-BY)  $\,$ 

## Chunk: Sepal

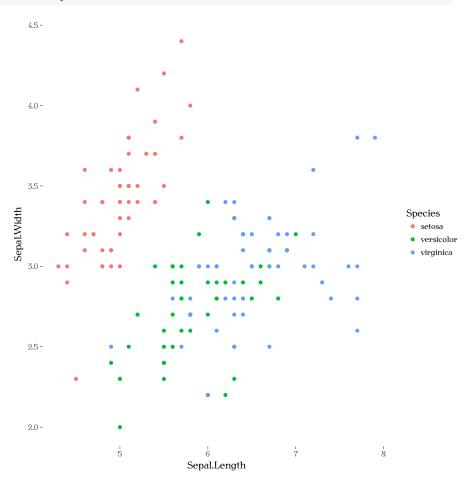


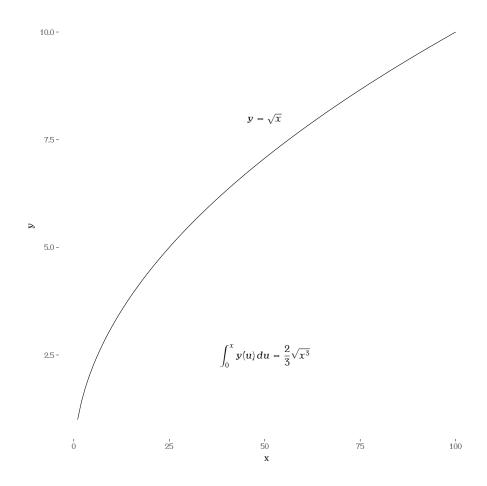
Problems with knitr plots:

- 1. R uses Times Roman and Helvetica—this might clash with the document fonts.
- 2. We would like to use TeX-based annotations—adding  $\sqrt{x}$  to the plot labels!

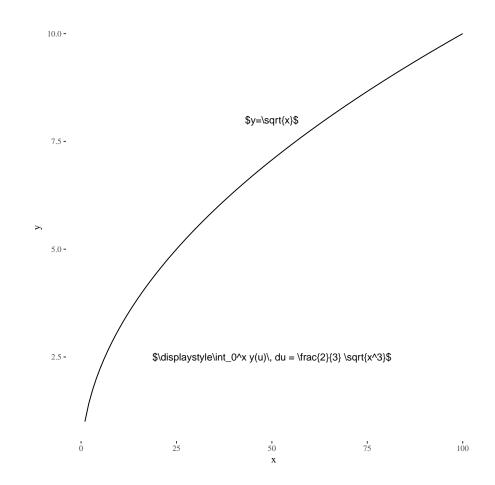
Solution: dev="tikz" either per chunk or as
opts\_chunk\$set(dev="tikz")

# Chunk: Sepal1





### Compare with annotations without tikz device:



The problem with this approach: it is slow, especially at the first run! I use it mostly for publications.