

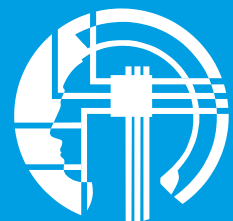


MAX-PLANCK-GESELLSCHAFT

STATISTICAL ANALYSIS OF BEHAVIORAL DATA

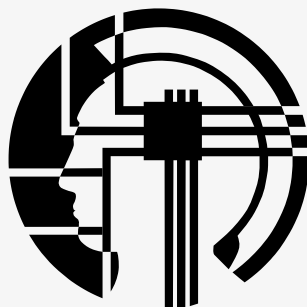
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Max Planck Institute for Biological Cybernetics
Tübingen



MAX PLANCK INSTITUTE
FOR BIOLOGICAL CYBERNETICS

Ahmad Ehyaei, Sara Ershadmanesh



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RMarkdown+Latex

This is simple an R Markdown document to show MPIThemes features. use # sign to define chapter. For definition sub chapter add ## to first line and add name of sub chapter.

Code Embedding

```

      speed      dist
Min.   : 4.0    Min.   : 2.00
1st Qu.:12.0    1st Qu.: 26.00
Median :15.0    Median : 36.00
Mean   :15.4    Mean   : 42.98
3rd Qu.:19.0    3rd Qu.: 56.00
Max.   :25.0    Max.   :120.00

```

We can run inline R code $2^{10} = 1024$

Markdown

In RMarkdown we can use markdown syntax, such as unordered list items

- item
- item
 - more item

Or use block quotes are written after >, e.g.,

To be, or not to be, that is the question!

Latex

We can easily write math expressions by latex syntax. Inline LaTeX equations can be written in a pair of dollar signs

$$f(k) = \binom{n}{k} p^k (1-p)^{n-k}$$

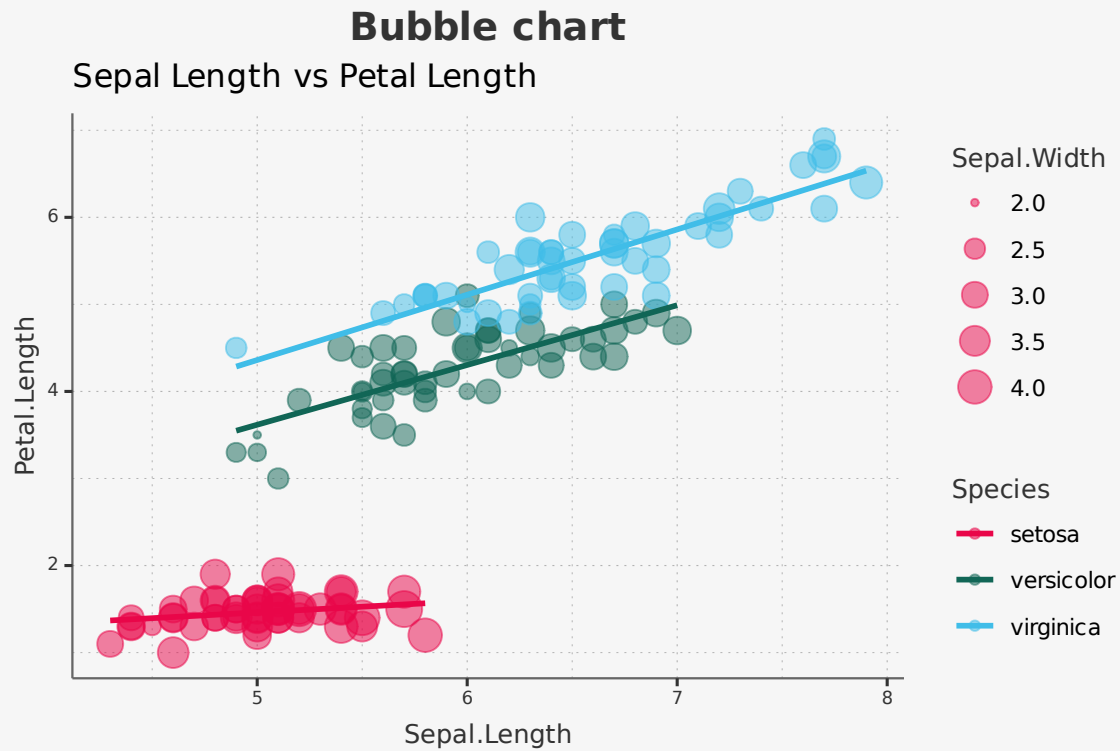
Plot

By using ggplot package, we can

```

ggplot(iris, aes(Sepal.Length, Petal.Length)) +
  labs(subtitle="Sepal Length vs Petal Length",
       title="Bubble chart") +
  geom_point(aes(color=Species, size=Sepal.Width), alpha = 0.5) +
  geom_smooth(aes(col=Species), method="lm", se=F)

```



Block Environments

Think

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

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Theorem 0.1: Pythagorean theorem

this is a theorem about right triangles and can be summarised in the next equation

$$x^2 + y^2 = z^2$$