ggplot Part IV

Workshop on Data Visualization in R

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NBIS, SciLifeLab

Saving plots

```
p <- ggplot(iris,aes(Petal.Length,Sepal.Length,color=Species))+
  geom_point()
```

- `ggplot2` plots can be saved just like base plots

```
png("plot.png",height=5,width=7,units="cm",res=200)
print(p)
dev.off()
```

- `ggplot2` package offers a convenient function

```
ggsave("plot.png",p,height=5,width=7,units="cm",dpi=200,type="cairo")
```

- Use `type="cairo"` for nicer anti-aliasing
- Note that default units in `png` is pixels while in `ggsave` it's inches

Extensions

- **gridExtra**: Extends grid graphics functionality
- **ggpubr**: Useful functions to prepare plots for publication
- **cowplot**: Combining plots
- **ggthemes**: Set of extra themes
- **ggthemr**: More themes
- **ggsci**: Color palettes for scales
- **ggrepel**: Advanced text labels including overlap control
- **ggmap**: Dedicated to mapping
- **ggraph**: Network graphs
- **ggiraph**: Converting ggplot2 to interactive graphics

Help

- **ggplot2 official reference**
- **The R cookbook**
- **StackOverflow**
- **RStudio Cheatsheet**
- **r-statistics Cheatsheet**
- **ggplot2 GUI**
- Numerous personal blogs, r-bloggers.com etc.

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Thank you. Questions?

R version 4.1.3 (2022-03-10)

Platform: x86_64-pc-linux-gnu (64-bit)

OS: Ubuntu 22.04.2 LTS

Built on : 📅 14-Apr-2023 at 🕐 08:24:46

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