# Metropolis

A modern beamer theme

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Center for modern beamer themes

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# Introduction

#### **METROPOLIS**

The **METROPOLIS** theme is a Beamer theme with minimal visual noise inspired by the hsrm Beamer Theme by Benjamin Weiss.

Enable the theme (in LTEX) by loading

```
\documentclass{beamer}
\usetheme{metropolis}
```

Note, that you have to have Mozilla's *Fira Sans* font and XeTeX installed to enjoy this wonderful typography.

In R you can of course use this package directly, see its documentation.

### **SECTIONS**

Sections group slides of the same topic

## Elements

for which METROPOLIS provides a nice progress indicator  $\dots$ 

# Title formats

### METROPOLIS TITLE FORMATS

### **METROPOLIS** supports 4 different title formats:

- Regular
- · SMALL CAPS
- · ALL SMALL CAPS
- ALL CAPS

They can either be set at once for every title type or individually.

## **Elements**

#### **TYPOGRAPHY**

The theme provides sensible defaults to \emph{emphasize} text, \alert{accent} parts or show \textbf{bold} results.

becomes

The theme provides sensible defaults to *emphasize* text, accent parts or show **bold** results.

#### FONT FEATURE TEST

- · Regular
- · Italic (also Italic)
- · SMALL CAPS
- · Bold (also Bold)
- Bold Italic (also Italic)
- · BOLD SMALL CAPS
- Monospace
- · Monospace Italic
- · Monospace Bold
- · Monospace Bold Italic

### Items

- · Milk
- Eggs
- Potatoes

### Enumerations

- 1. First,
- 2. Second and
- 3. Last.

### Descriptions

PowerPoint Meeh.

Beamer Yeeeha.

## Animation (USING LETEX )

This is important

This uses  $\ensuremath{\text{ET}_{\text{E}}}\xspace$ X for aninmation. The next slides uses RMarkdown

## Animation (using ETEX)

- · This is important
- · Now this

This uses  $\ensuremath{\text{ET}_{\text{E}}}\xspace X$  for aninmation. The next slides uses RMarkdown

## Animation (using ETEX)

- · This is important
- · Now this
- · And now this

This uses **MFX** for aninmation. The next slides uses RMarkdown

# Animation (using ETEX)

- This is really important
- · Now this
- · And now this

This uses  $\ensuremath{\text{ME}}\xspace$ X for aninmation. The next slides uses RMarkdown

· This is important

- · This is important
- · Now this

- · This is important
- · Now this
- · And now this

- This is really important
- · Now this
- · And now this

# FIGURES (USING LETEX)

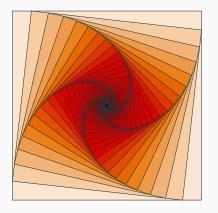


Figure 1: Rotated square from texample.net.

This used a MEX feature. All RMarkdown features are also at our disposal.

## TABLES (USING LETEX)

Table 1: Largest cities in the world (source: Wikipedia)

City	Population			
Mexico City	20,116,842			
Shanghai	19,210,000			
Peking	15,796,450			
Istanbul	14,160,467			

This used a **MEX** feature. All RMarkdown features are also at our disposal.

#### **BLOCKS**

Three different block environments are pre-defined and may be styled with an optional background color.

### Default

Block content.

#### Alert

Block content.

## Example

Block content.

### Default

Block content.

#### Alert

Block content.

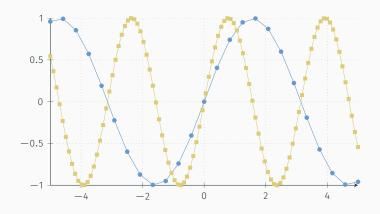
### Example

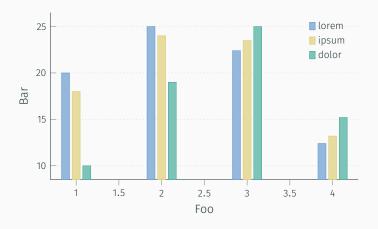
Block content.

The right side uses the **\metroset{block=fill}** option. Blocks can also used in Markdown using ### (if slide-level=2).

### Матн

$$e = \lim_{n \to \infty} \left( 1 + \frac{1}{n} \right)^n$$





## QUOTES

Veni, Vidi, Vici

#### REFERENCES

Some references (Knuth, 1992; Graham et al., 1989; Simpson, 2003; Erdős, 1995; Greenwade, 1993)

 ${\bf allowframebreaks} \ {\bf is} \ {\bf not} \ {\bf used} \ {\bf or} \ {\bf needed}, \ {\bf also} \ {\bf changed} \ {\bf \backslash citep}, \ {\bf and} \ {\bf defaulted} \ {\bf natbib} \ {\bf to} \ {\bf option} \ [{\bf round}].$ 

Notes can be added either using latex syntax:

```
\note{
  \begin{itemize}
    \item \emph{This} is a note.
  \end{itemize}
or with pandoc (markdown) syntax:
<div class = "notes">
  - This is *another* note.
</div>
```

The display of the notes is controlled using the YAML argument beameroption. Here we have used beameroption: "show notes".

∟<sub>Notes</sub>

-Elements

Notes can be added other using lates syntac.

Vestel

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- · This is a note.
- · This is another note.

# Conclusion

Get the source of this theme and the demo presentation from

https://github.com/matze/mtheme

The theme *itself* is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License



Source and documentation for the RMarkdown variant are at https://github.com/eddelbuettel/binb.

Questions?

#### **BACKUP SLIDES**

Sometimes, it is useful to add slides at the end of your presentation to refer to during audience questions.

The best way to do this is to include the **appendixnumberbeamer** package in your preamble and call **\appendix** before your backup slides.

**METROPOLIS** will automatically turn off slide numbering and progress bars for slides in the appendix.

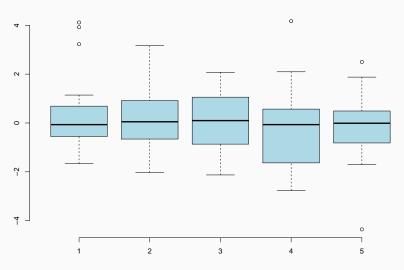
Calling \appendix currently leads to an error in when using binb.

### R APPENDIX: R FIGURE EXAMPLE

The following code generates the plot on the next slide (taken from help(bxp) and modified slightly):

### R APPENDIX: R FIGURE EXAMPLE

### Example from help(bxp)



### R APPENDIX: R TABLE EXAMPLE

A simple knitr::kable example:

Table 2: (Parts of) the mtcars dataset

	mpg	cyl	disp	hp	drat	wt	qsec	VS
Mazda RX4	21.0	6	160	110	3.90	2.620	16.46	0
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875	17.02	0
Datsun 710	22.8	4	108	93	3.85	2.320	18.61	1
Hornet 4 Drive	21.4	6	258	110	3.08	3.215	19.44	1
Hornet Sportabout	18.7	8	360	175	3.15	3.440	17.02	0

- P. Erdős. A selection of problems and results in combinatorics. In *Recent trends in combinatorics* (*Matrahaza, 1995*), pages 1–6. Cambridge Univ. Press, Cambridge, 1995.
- R. Graham, D. Knuth, and O. Patashnik. *Concrete mathematics*. Addison-Wesley, Reading, MA, 1989.
- G. D. Greenwade. The Comprehensive Tex Archive Network (CTAN). *TUGBoat*, 14(3):342–351, 1993.
- D. Knuth. Two notes on notation. Amer. Math. Monthly, 99:403-422, 1992.
- H. Simpson. Proof of the Riemann Hypothesis. preprint (2003), available at http://www.math.drofnats.edu/riemann.ps, 2003.