Understanding Liposome Flux Assays in the context of a Bacterial Sodium Voltage Gated Channels (NavAb)

Biological data analysis in R

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Introduction

lon(s)	Affinity Constant (K _a)
Na ⁺	1.0

Ion(s)	Affinity Constant (K_a)
Na ⁺	1.0
K^+	0.14

lon(s)	Affinity Constant (K_a)
Na ⁺	1.0
K^+	0.14
Rb^+	0.02

lon(s)	Affinity Constant (K_a)
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K^+	0.14
Rb^+	0.02
Cs^+	0.005

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Na ⁺	1.0
K^+	0.14
Rb^+	0.02
Cs^+	0.005
H^+	??

Table 1: Triathlon Results

Characteristics of liposome flux assays (LFAs)

• Channel-insert liposomes

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- Channel-insert liposomes
- A fluorophore is present within the channel-insert liposome

Characteristics of liposome flux assays (LFAs)

- Channel-insert liposomes
- A fluorophore is present within the channel-insert liposome
- liposomes are a form of lipid bilayers

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

Enable the theme 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.

Sections

Sections group slides of the same topic

\section{Elements}

for which $\boldsymbol{metropolis}$ provides a nice progress indicator \dots

Titleformats

Metropolis titleformats

metropolis supports 4 different titleformats:

- Regular
- Smallcaps
- ALLSMALLCAPS
- ALLCAPS

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

Small caps

This frame uses the smallcaps titleformat.

Potential Problems

Be aware, that not every font supports small caps. If for example you typeset your presentation with pdfTeX and the Computer Modern Sans Serif font, every text in smallcaps will be typeset with the Computer Modern Serif font instead.

all small caps

This frame uses the allsmallcaps titleformat.

Potential problems

As this titleformat also uses smallcaps you face the same problems as with the smallcaps titleformat. Additionally this format can cause some other problems. Please refer to the documentation if you consider using it.

As a rule of thumb: Just use it for plaintext-only titles.

ALL CAPS

This frame uses the allcaps titleformat.

Potential Problems

This titleformat is not as problematic as the allsmallcaps format, but basically suffers from the same deficiencies. So please have a look at the documentation if you want to use it.

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
- SMALLCAPS
- Bold
- Bold Italic
- Bold SmallCaps
- Monospace
- Monospace Italic
- Monospace Bold
- Monospace Bold Italic

Lists

Items

- Milk
- Eggs
- Potatos

Enumerations

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

Descriptions

PowerPoint Meeh.

Beamer Yeeeha.

• 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



Figure 1: Rotated square from texample.net.

Tables

Table 2: 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

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.

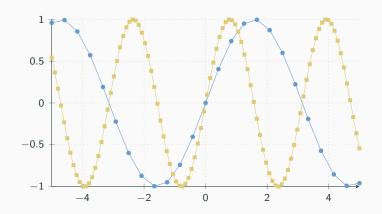
Example

Block content.

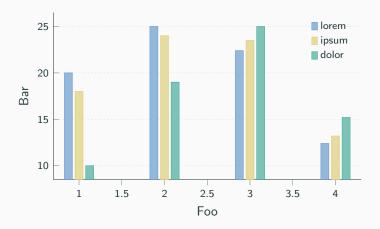
Math

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

Line plots



Bar charts



Quotes

Veni, Vidi, Vici

Frame footer

metropolis defines a custom beamer template to add a text to the footer. It can be set via

\setbeamertemplate{frame footer}{My custom footer}

My custom footer 21

References

Some references to showcase [allowframebreaks] $\cite{Mathematical Properties}$ [?, ?, ?, ?, ?]

Conclusion

Summary

Get the source of this theme and the demo presentation from

github.com/matze/mtheme

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





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.

References i