NoTeX

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Chapter 1

Introduction

This is an attempt to transform the old project of NoTeX into an actual class, done in a proper way. The class is based out of the report class, and all the parameters are defined in the notex.cls class file. The class comes with a packet, called notexmacros. Such packet adds plenty of macros that can be used by the user, and that were pretty much useful to me while taking notes. This class aims also to reduce drastically the number of errors and thus increase the compile time. If it will be worth, it will be published also on the CTAN archive.

Chapter 2

The class

The class file is organized in various structures: declaration, packages importation, definition of colors, custom commands, loading of the class.

- 2.1 Declaration
- 2.2 Importing the packages needed
- 2.3 Custom colors

2.4 Commands of the class

This class provides various commands, which allow to customize to your liking the template. Here is a list of all the supported (and provided) commands:

```
\maincol{format}{code}

Examples: \maincol{HTML}{303342}

\maincol{RGB}{30, 25, 76}
```

Sets the main color for the document.

format specifies the format of the color. Supports all the formats of the xcolor package; code is the code of the color. Must match the format given by the previous parameter

2.5 Loading of the class

Chapter 3

The notexmacros package

In this chapter the notexmacro package will be explained. Such package contains a collection of macros which can turn to be useful while using the class. The package is automatically required by the class, so you don't have to install anything else.

The macros are divided into two groups: the **math** macros and the **text** macros. The **math** macros are used within a math environment, while the text macros are not. There are some **general purpose** macros which can be used both inside and outside a **math** environment.

3.1 The math macros

\eq

Adds space around a = . An example follows:

a \eq b $-becomes \rightarrow a = b$

\thus

Adds substantial space around a \Longrightarrow , and it can be used to define a logical implication (we have A, thus we can get B). An example follows:

a \thus b $-becomes \rightarrow a \implies b$

 $\mbox{\ensuremath{\mbox{\sc nextline}}}$ and $\mbox{\ensuremath{\mbox{\sc prevline}}}$

Adds a \Longrightarrow which can be used at the end (with \nextline) or at the beginning (with \prevline) of an equation. This can be used while passing from one line to the other of an equation which would usually need more than one line. An example follows:

 $ax + b \setminus nextline$ $-becomes \rightarrow ax + b \Longrightarrow ax + c$ $-becomes \rightarrow ax + c$

3.1.1 Specific macros for statistical distributions

 $\verb|\cov|, \verb|\bino|, \verb|\cov|, \verb|\geom|, \verb|\poiss| and \verb|\multin||$

Adds the function of the covariance and the following distributions: the binomial distribution, the Bernoulli distribution, the uniform distribution, the geometric distribution, the Poisson distribution and the multinomial distribution. An example follows:

 $\operatorname{\mathsf{Cov}}(\mathtt{X})$ —becomes \to $\operatorname{\mathsf{Cov}}(X)$

X \sim \bino \sim \berno \sim \unif —becomes \to $X \sim Bin \sim Bern \sim Unif$ \sim \geom \sim \poiss \sim \multin — Geom $\sim Poisson \sim Multi$

3.2 The text macros

 \st , \nd , \rd and \nth

Adds respectively the st, the nd, the rd and the th after a number. Works both in a math and in a non-math environment. An example follows:

1\st, 2\nd, 3\rd, 4\nth
$$-{\rm becomes} \rightarrow 1^{\rm st}$$
 , $2^{\rm nd}$, $3^{\rm rd}$, $4^{\rm th}$