Magic Variables

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1 Usage

 $\mbox{makeVar}{x}{noFmt}{x}$ defines the macro \x with \noFmt formatting macro, with content x. \makeVar{boldX}{mathbf}{x} defines the macro \boldX with \mathbf formatting macro, with content x.

x is a normal x, x is a bold x.

x' is a normal x prime, x' is a bold x prime.

 x_0 is a normal x with subscript, x_0 is a bold x with subscript.

 x'_0 is a normal x prime with subscript, x'_0 is a bold x prime with subscript.

Note: the macros still works if a text formatting macro is used, e.g. $\mbox{makeVar}\{sfX\}\{textsf}\{x\}$ uses a text formatting macro.

x is a serif x, x' is a serif x prime.

 x_i is a serif x with subscript, x_i' is a serif x prime with subscript. The subscript is rendered in maths font instead of the text formatting macro.

Acknowledgement

Thanks Alceste Scalas for the original macro design, the author simply added automation in making the variables.