

seto.cls Sample (a nyan.cls variant)

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A demonstration of the features of seto.cls.

Package information

There is an option called `labelsBySect`, which labels problems, theorems, etc by section;
Another option is called `noheader`, which removes the headers identifying the author, etc.

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§1 This is a section header

1.1 Subsection appearance

The command for (sub)(sub)section has not changed, although its appearance has: `\(sub)(sub)section`.

1.1.1 Just in case!

§2 Math commands

A few math commands have been defined, such as `\symsum` and `\cycsum`, which appear as \sum_{sym} and \sum_{cyc} , respectively*. Some other ones defined include `\deg` (changed from ‘deg’ to ‘°’), and `\pow` (power of a point).

2.1 Delimiters(`\left` and `\right` already included)

- `\abs`; absolute values: $|pqr|$;
- `\norm`; norms [of vectors]: $\|\mathbf{v}\|$;
- `\floor`, `\ceil`; floors/ceilings: $\lfloor abc \rfloor$, $\lceil abc \rceil$;
- `\parenth`; parentheses because characters typed is still less: (xyz) ;
- `\sqbrack`; brackets, just in case?
- `\braces`; braces because why not: $\{n/k\}$;

`\evalat[upper]{lower}` \Rightarrow $\left\{ \begin{array}{l} \text{first argument} \\ \text{second argument} \end{array} \right.$, because that kind of is a delimiter? It’s not `\mid` that creates the bar, duh...

2.2 Floors/ceilings

Due to personal need†, I’ve defined floor brackets because “`\left\lfloor floor ... \right\rfloor`” was too tedious to repeat.

2.3 Sets

I also found typing `\mathbb{R}` for \mathbb{R} too tedious to repeat, so I shortened it to `\R`. Similar commands exist for \mathbb{N} , \mathbb{Z} , \mathbb{Q} , and \mathbb{C} :

Command	<code>\N</code>	<code>\Z</code>	<code>\Q</code>	<code>\R</code>	<code>\C</code>
Appearance	\mathbb{N}	\mathbb{Z}	\mathbb{Q}	\mathbb{R}	\mathbb{C}

§3 Fonts/text formatting

On this sty I changed up the fonts:

- Title/section/quotes font is **Alegreya**;
- Sans font used is **Lato**.
- Body text font is **EB Garamond**.

`\emph`’s appearance has changed as well, **like so**. For `\itemize` I’ll change up the item icons later, using **TikZ** probably.

*sorry dennis lol

†Ross quiz, anyone?

Quotes are called using ‘`\quote{text}{author}`’, although this type looks more suitable at the top of a page.

seto.sty

§4 Fancy stuff

Problem 4.1. The appearance of a problem/example. Who needs environments, thus these boxes are defined as commands instead of environments. This one is called by `\problem/example[<label>]{<text>}`. When the first argument is omitted, the labeling parentheses will also disappear.

Theorem 4.2. Theorems and definitions are this color. (`\theorem/definition{}`)

Lemma — Lemmas/claims are this color. (`\lemma/claim{}`)

Proof. I’m also too lazy to add a frame/box to enclose proofs, so whatever. (`\pro{}`)

□

Remark. I used a [hopefully] better color theme(for anyone who cares, it’s Big Sur). Oh, and remarks/notes are called by `\remark/note{...}`.

Oh, and to remove the labeling numbers, use a shortened version of the original command:

Original	<code>\problem</code>	<code>\example</code>	<code>\theorem</code>	<code>\definition</code>
Shortened	<code>\prob</code>	<code>\expm</code>	<code>\theo</code>	<code>\defn</code>

The other commands do not have abbreviated versions.

Table of Contents: it finally worked!!!! Command is `\toc`.

§5 Exercises

Problem 5.1. The bolded problem number and label is called by `\exercise`. It takes an optional input as a label.

Problem 5.2 (sample label). Another exercise.

Solution. Solution works intuitively. (This is an environment called `sol.`)

■