seto.cls Sample (a nyan.cls variant)

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May 2021

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.

Contents

§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 $\sum_{\text{sym}}$ and $\sum_{\text{cyc}}$, 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`; aboslutelllly 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: $\{n/k\}$;

$$\texttt{\textbackslash evalat[upper]\{lower\}} \Rightarrow \Big|_{\text{second argument}}^{\text{first argument}}$$, 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 ... \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	\N	\Z	\Q	\R	\C
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.

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[*]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	\problem	\example	\theorem	\definition
Shortened	\prob	\exmp	\theo	\defn

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 intuitvely. (This is an environment called `sol`.)   ■