

# nyan.cls Sample

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Presenting the most garish color theme to ever exist

## 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 you need these.

There is a slight possibility of the necessity of this command, `\subsubsection`, I guess.

## §2 Math commands

A few math commands have been defined, such as `\sym` and `\cyc`, which appear as  $\sum_{\text{sym}}$  and  $\sum_{\text{cyc}}$ , respectively\*

### 2.1 Between bars

After noticing the lack of absolute value bars and the evaluated-at thing, the following were defined:

`\abs{...}`  $\Rightarrow$   $|...|$ ;  
`\evalat[upper number]{lower number}`  $\Rightarrow$   $\left. \begin{array}{l} \text{first argument} \\ \text{second argument} \end{array} \right\}$ .

### 2.2 Floors/ceilings

Due to personal need<sup>†</sup>, I've defined floor brackets because "`\lfloor` ... `\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  $\mathbb{Z}$ ,  $\mathbb{Q}$ , 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

Default fonts used, emph appearance changed: **like so**

As for the environments `enumerate`, `itemize`, and `enumitem`, I'm too lazy to change those, lel.

Also, the command `\solution`(which compiles as "*Solution.* ", because `\textit{Solution. }` is also rather long.

## §4 Fancy stuff

**Problem 4.1.** The appearance of a problem/example. Command is `\problem[]{}.`

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

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\*hi dennis heheheheh

<sup>†</sup>Ross quiz, anyone?

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

*Proof.* I do not think proofs need their own box... at least not now. The command for proofs like this one is `\pro{proof text}`. □

*Remark.* The tasteless color theme is from Nyan Cat(excluding the rainbows), judge me. Oh, and remarks are called by `\remark{...}`.

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

Original	<code>\(sub)(sub)section</code>	<code>\problem</code>	<code>\example</code>	<code>\theorem</code>	definition
Shortened	<code>\(sub)(sub)sctn</code>	<code>\prob</code>	<code>\exmp</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`. (who needs inputs lol)

**Problem 5.2** (random label). Another exercise.

**Solution** (argument for label). Solution environment, called `sol`. ■

That's about all nyan.cls has to it!

*Remark.* This is my first .cls, and in later styles I've improved the color theme and changed up the fonts, see `seto.cls`.