

ABOUT THIS TYPESETTING EDITOR

This typesetting editor is an application I have been developing for over half a year. The codebase was written from scratch in Python 3, and uses its own UI toolkit which I also wrote. Although still in alpha stages, the codebase can be synced from <https://github.com/kelvin13/shifty-octocat>, where it will work out of the box on any Linux installation.

$$\int_{13}^{22+\frac{e}{2}} \int_{13}^{22+\frac{e}{2}} - \frac{abc + \frac{e}{n}}{22+\frac{e}{2}} \frac{abc + \frac{e}{n}}{\int_{13}^{22+\frac{e}{2}} \frac{e}{n}} \frac{abc + \frac{e}{n}}{n} \frac{abc + \frac{e}{n}}{n}$$

$a - \int_{13}$

The end goal of the project is to include all the tools and parameters handled by “serious” typesetters, and allow editing of them

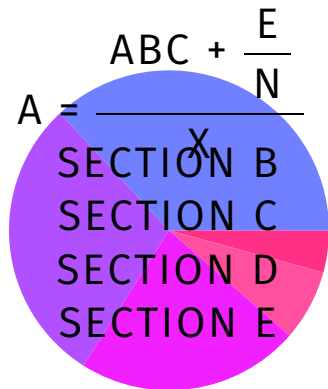
in the least verbose manner. Hence, Vedit offers granular control,
with a strong emphasis on **additive styling**. $\frac{a}{x}$

—*Kelvin Ma*

WHAT IS ADDITIVE STYLING?

PIE CHART EXAMPLE

Subtitle



Additive styling is the idea that multiple “building block” text

styles can be defined and combined to create the visual styles seen on the page. For exam

COUNTRY	GDP (USD)	POPULATION (MILLIONS)
Britain	41,787.47	64.1
France	42,503.30	66.03
Germany	46,268.64	80.62

ple, an *<Italic>* class may be defined which simply declares an italic font file, while a *<Superscript>* class might define a reduced font size and raised position. The superscript and italic classes can then be stacked to infer a *<Superscript-Italic>* class with the attributes of both.

Of course, in real typesetting, superscripts require a slightly heavier fontweight, which is where **explicit styling** is needed. An italic and a bold class both define a font file, so a *<Bold-Italic>* class must be defined with the specialized bold-italic font.

Additive styling is nevertheless very powerful. *Classes can overlap each other on the page, allowing **mixing** effects, such as in this sentence where a pair of italic tags mixes with a pair of bold tags over the word “interesting”.* Additive styling even allows the use of negative styles, and multistyles. *This lets us do things such as **superitalics** or **superbolds** in our text.* Negative styles are work too, though there is little practical use for them.

Additive styling to my knowledge is unique to Vedit, though CSS can be hacked to achieve a significant subset of its behavior. It is distinct from an **inheritance model** because additive styling is flat rather than nested, relying on an ordered sequence of classes which can be turned on and off to effect certain elements on the page. Unlike the **flat styling model**, additive styles mix and combine with one another, eliminating redundant statements, and unlike the **direct styling model**, it preserves the order of editable classes.

Paragraphs too, have additive styling, which functions in the

same way as text styling, except with attributes like leading, hyphenation, margins, and indentation.

PARAGRAPH CONTROL

Instead of “single” or “double” spacing, Vedit lets the writer specify the literal point size of the **leading**, or line height. This helps you predict the amount of space that text will take up, and helps you avoid text alignment headaches, since the spacing is always constant and measurable.

Indentation is powerful in Vedit. The lines over which it takes effect can be explicitly enumerated (in a relative count from the start of the paragraph), and it can be set in terms of the character positions of the first line.

—> This is very useful for creating **hanging indents**.

Paragraph styles even add their **constituent text styles**, which allows for *very interesting* constructs, such as this gray filter, which is made up of a paragraph class containing a single text

class which defines just a
gray color, all overlayed
over our standard
body text
style.

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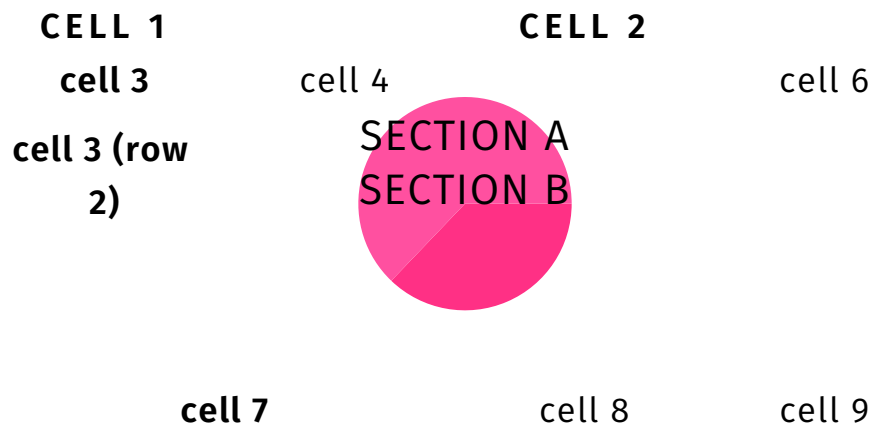
SC
RIPTS
AND
SUBSCRIPTS

Integral test: $\int_{13}^{22+\frac{e}{2}} f(x) \, dx$.

TEXT CHANNELS

One last thing I might want to mention. Text columns are completely flexible, and they can be bent to make any text wrapping you would ever need. Even *negative* text wrapping works.

Flexible text channels even work with Vedit's tables, which calculate their cell width based on the width of the text channel at that point.



Of course, square tables are much easier to read.