ABOUT THIS TYPESETTING EDITOR

This typesetting editor is an application I have been developing for over , 0 + half a year. The codebase was written fro +|n|+.

$$\text{own } \vee \sqrt[3]{\overline{U}} + \sqrt[3]{\frac{x}{n}} + \sqrt[3]{\frac{\int_{13}^{\dot{2}2 + \frac{e}{2}}}{n}} + \sqrt[3]{\frac{abc + \frac{e}{n}}{\int_{13}^{22 + \frac{e}{2}}}} \text{ from}$$

⟨*https://github.com/kelvin13/shifty-octocat*⟩, where it will work out of the box on any Linux installation.

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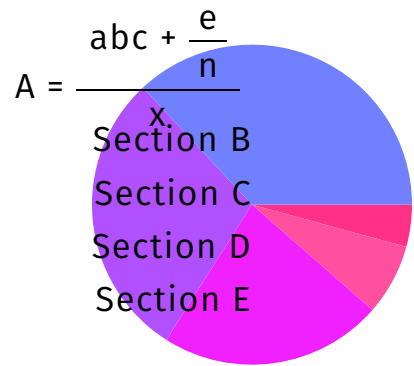$$a - \int_{13}$$

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

$$A = \frac{abc + \frac{e}{n}}{x}$$

Section B

Section C

Section D

Section E

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
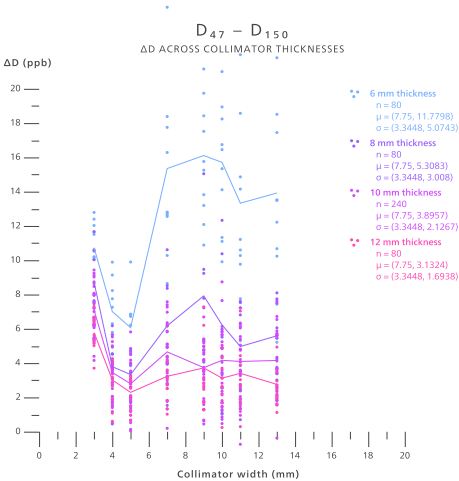
COUNTRY	GDP TRILLIONS USD	POPULATION MILLIONS
United States	17.914	80.62
Britain	2.678	64.1
France	2.806	66.03
Germany	3.73	80.62

ple, an ‹*Italic*› class may be defined which simply declares an italic font file, while a ‹$^{\text{Superscript}}$› class might define a reduced font size and raised position. The superscript and italic classes can then be stacked to infer a ‹$^{\textit{Superscript-Italic}}$› 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***›
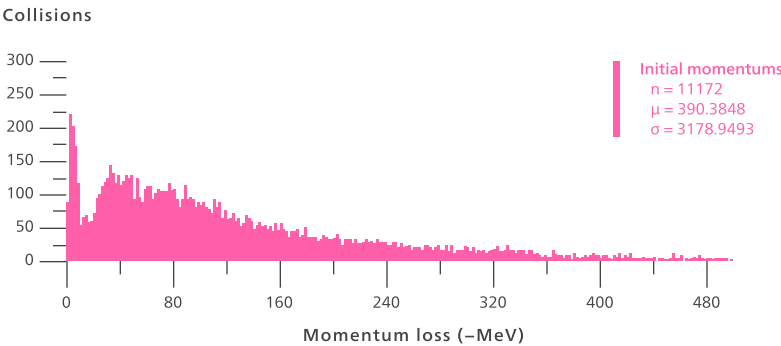
class must be defined with the specialized bold-italic font.

Additive styling is nev

$D_{47} - D_{150}$
ΔD ACROSS COLLIMATOR THICKNESSES

ΔD (ppb)

6 mm thickness
n = 80
μ = (7.75, 11.7798)
σ = (3.3448, 5.0743)

8 mm thickness
n = 80
μ = (7.75, 5.3083)
σ = (3.3448, 3.008)

10 mm thickness
n = 240
μ = (7.75, 3.8957)
σ = (3.3448, 2.1267)

12 mm thickness
n = 80
μ = (7.75, 3.1324)
σ = (3.3448, 1.6938)

Collimator width (mm)

QUADRUPOLE MOMENTUM LOSSES

19,890 MUONS · 10 × 10 MM COLLIMATORS

Collisions

Initial momentums
n = 11172
μ = 390.3848
σ = 3178.9493

Momentum loss (−MeV)

ertheless very powerful. *Classes can overlap each other on the page, al-lowing* **mixing effects, such a s in this s en tence where a pair of italic tags mixes with a pair of bold tags over the word "interesting".** Addi-tive styling even allows the use of nega-tive 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 an-other, eliminating redundant statements, and un-like 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.

SUPERSCRIPTS AND SUBSCRIPTS

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

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.

	CELL 1		**CELL 2**	
cell 3	cell 4			cell 6
cell 3 (row 2)	Section A Section B			
	cell 7	cell 8		cell 9
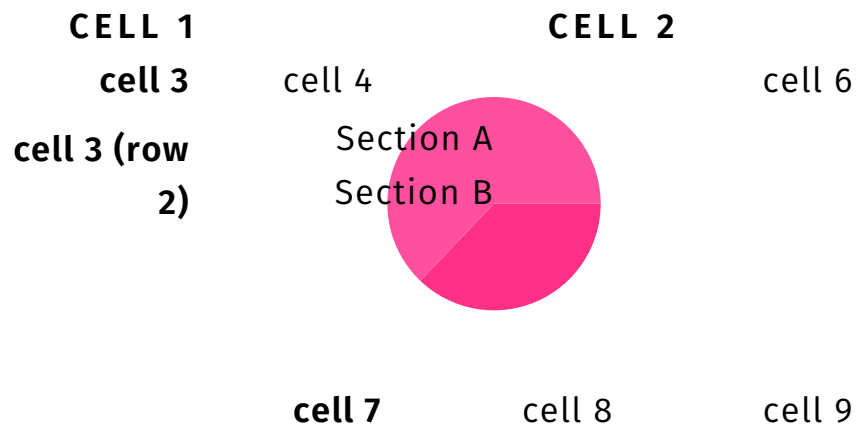
Of course, square tables are much easier to read.