

Fluid Font Forge

version4.0.1

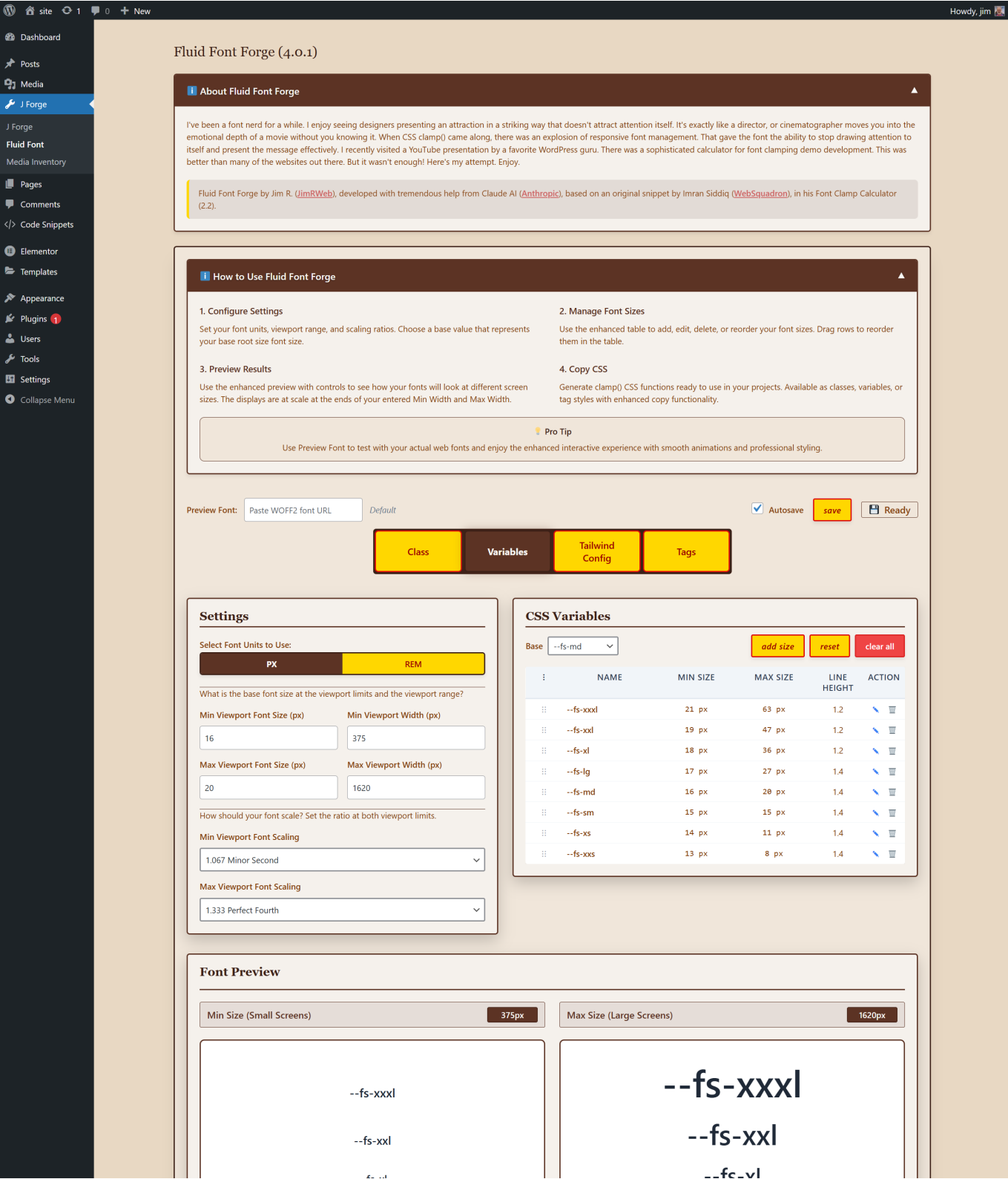
WordPress5.0+

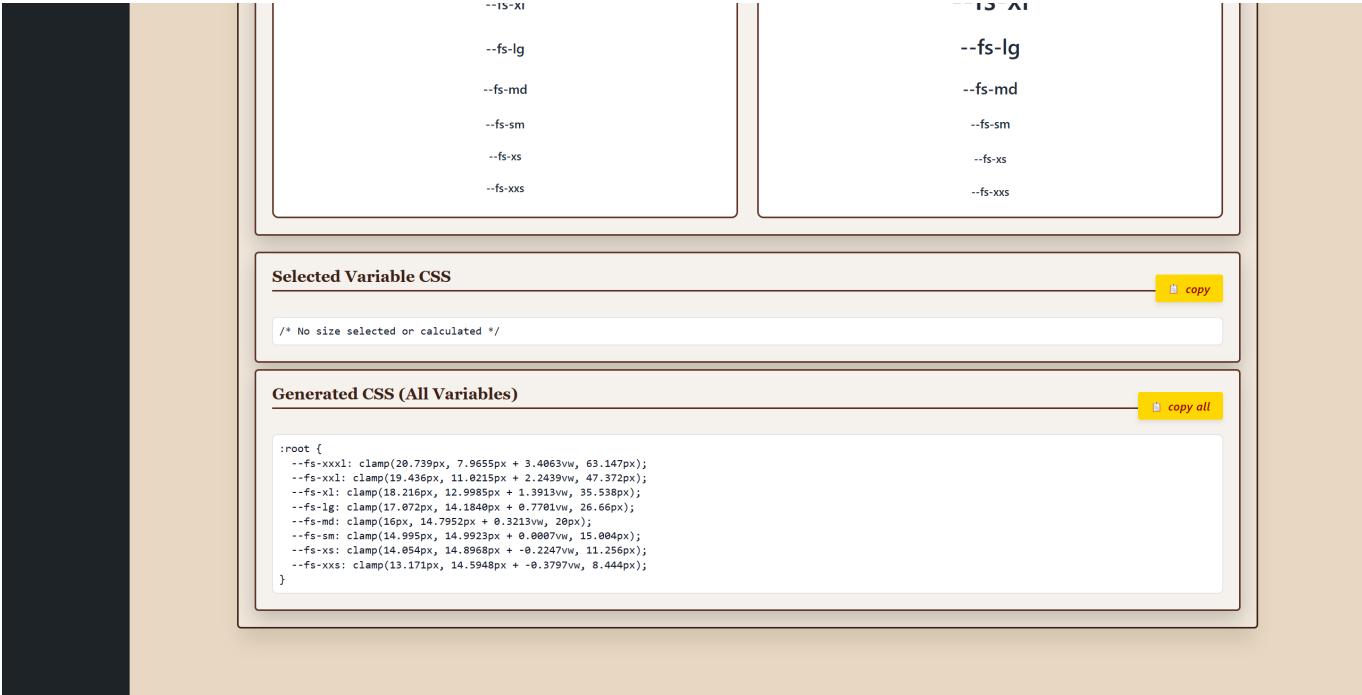
licenseGPL v2+

PHP7.4+

A WordPress admin plugin for generating CSS clamp() functions for responsive typography. Provides a calculator interface for creating fluid font scaling between viewport sizes.

Transform your WordPress site's typography with precise, responsive font scaling using CSS clamp() functions.





Overview

Fluid Font Forge generates CSS clamp() functions that allow font sizes to scale smoothly between minimum and maximum viewport widths. The plugin provides:

- Mathematical scaling ratios for typography hierarchy
- Four output formats: CSS classes, custom properties, HTML tags, and Tailwind config
- Real-time preview at minimum and maximum viewport sizes
- Drag-and-drop reordering of font sizes
- Configurable line heights and custom naming

Installation

1. Download the plugin files to `/wp-content/plugins/fluid-font-forge/`
2. Activate through WordPress admin
3. Navigate to **J Forge** → **Fluid Font** in the admin menu

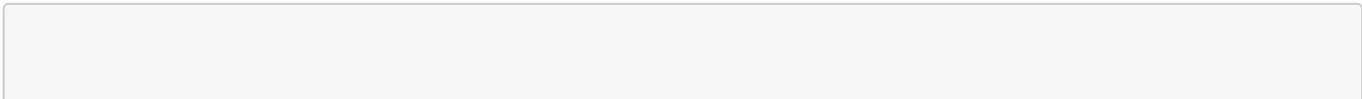
Usage

Basic Configuration

1. **Set Viewport Range:** Configure minimum and maximum viewport widths (default: 375px to 1620px)
2. **Set Font Size Range:** Configure root font sizes at each viewport (default: 16px to 20px)
3. **Choose Scaling Ratios:** Select mathematical ratios for typography scaling
4. **Select Base Size:** Choose which size represents your base font size

Output Formats

CSS Classes



```
.large {
  font-size: clamp(1.25rem, 0.89rem + 1.8vw, 2.67rem);
  line-height: 1.4;
}
```

CSS Custom Properties

```
:root {
  --fs-lg: clamp(1.25rem, 0.89rem + 1.8vw, 2.67rem);
}
```

HTML Tag Styling

```
h1 {
  font-size: clamp(2.07rem, 1.33rem + 3.7vw, 4.77rem);
  line-height: 1.2;
}
```

Tailwind Config

```
module.exports = {
  theme: {
    extend: {
      fontSize: {
        'base': 'clamp(1.000rem, 0.901rem + 0.49vw, 1.266rem)',
        'lg': 'clamp(1.125rem, 1.001rem + 0.62vw, 1.424rem)'
      }
    }
  }
}
```

Features

Typography Scaling

Scale Name	Ratio	Best For
Minor Second	1.067	Subtle, tight spacing
Major Second	1.125	Clean, modern sites
Minor Third	1.200	Balanced hierarchy
Major Third	1.250	Strong contrast

Scale Name	Ratio	Best For
Perfect Fourth	1.333	Bold, dramatic
Golden Ratio	1.618	Harmonious, classic

Interface Features

- Real-time preview of font sizes at minimum and maximum viewports
- Editable size names and line heights
- Drag-and-drop reordering
- Copy-to-clipboard functionality
- Custom font preview (WOFF2 font loading)
- Autosave capability

Technical Requirements

- WordPress 5.0+
- PHP 7.4+
- Modern browsers supporting CSS clamp() (Chrome 79+, Firefox 75+, Safari 13.1+, Edge 79+)

Browser Support

CSS clamp() functions work in:

- Chrome 79+ (March 2020)
- Firefox 75+ (April 2020)
- Safari 13.1+ (March 2020)
- Edge 79+ (January 2020)

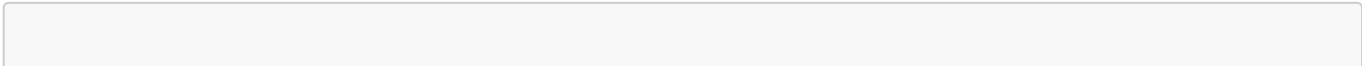
For older browsers, consider providing fallback font sizes.

Plugin Architecture

```
fluid-font-forge/
├── fluid-font-forge.php           # Main plugin file
├── includes/
│   ├── class-fluid-font-forge.php # Main plugin class
│   └── class-default-data-factory.php # Default data provider
├── assets/
│   ├── css/admin-styles.css      # Admin interface styles
│   └── js/admin-script.js        # Admin interface JavaScript
└── uninstall.php                 # Cleanup on uninstall
```

Development

Setup



```
git clone https://github.com/jimrweb/fluid-font-forge.git
cd fluid-font-forge
```

Contributing

1. Fork the repository
2. Create a feature branch
3. Follow WordPress coding standards
4. Test thoroughly
5. Submit a pull request

Mathematical Background

The plugin uses CSS clamp() with linear interpolation between viewport sizes:

```
clamp(min_size, preferred_size, max_size)
```

Where preferred_size is calculated as:

```
preferred_size = intersection + slope * viewport_width
```

- **slope:** $(\text{max_size} - \text{min_size}) / (\text{max_viewport} - \text{min_viewport})$
- **intersection:** y-intercept of the scaling line

License

GPL v2 or later - see [LICENSE](#) file.

Credits

- Developed by [Jim R.](#)
- Development assistance from Claude AI (Anthropic)
- Inspired by Imran Siddiq's Font Clamp Calculator (WebSquadron)

Support

- **Bug Reports:** [GitHub Issues](#)
- **Feature Requests:** [GitHub Issues](#)
- **Documentation:** [GitHub Wiki](#)

Acknowledgments

- **Jim R.** ([JimRWeb](#)) - Original concept and development
- **Claude AI** ([Anthropic](#)) - Development assistance and architecture

- **Imran Siddiq** ([WebSquadron](#)) - Original Font Clamp Calculator inspiration
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