

PDF Generation Edge Case Test Suite

1. Unicode Stress Test 🌐

Extended Unicode Characters

- Arabic: مرحبا بالعالم (Hello World)
- Chinese: 你好 (Hello World)
- Japanese: こんにちは (Hello World)
- Korean: 안녕하세요 세계 (Hello World)
- Hindi: नमस्ते दुनिया (Hello World)
- Russian: Привет мир (Hello World)
- Greek: Γεια σου κόσμος (Hello World)
- Hebrew: הלוו עולמ (Hello World - RTL)

Mathematical Symbols

- $\forall x \in \mathbb{R} : x^2 \geq 0$
- $\int_0^\infty e^{-x^2} dx = \sqrt{\pi}/2$
- $\nabla \times \mathbf{B} = \mu_0 \mathbf{J} + \mu_0 \epsilon_0 \partial \mathbf{E} / \partial t$
- $\aleph_0 < 2^{\aleph_0} = \aleph_1$ (Continuum Hypothesis)

Special Typography

- Œllo Wörlđ (Fraktur)
- ℋello Wörlđ (Script)
- Œllo Wörlđ (Double-struck)
- ℋello (Zalgo text)

2. Complex Table Structures

Nested Headers and Spans

Category	Q1 2024		Q2 2024		Total
	Revenue	Profit	Revenue	Profit	
Product A	\$100K	\$20K	\$150K	\$35K	\$305K
Product B	\$200K	\$50K	\$180K	\$40K	\$470K
Total	\$300K	\$70K	\$330K	\$75K	\$775K

Table with Complex Content

Feature	Code Example	Mathematical Formula	Special Characters
Inline	const x = 42;	$E = mc^2$	™ © ® § ¶
Block	``js		
function test() {			

return true;			
}			

```
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## 3. Extreme Code Blocks

### Very Long Lines (Horizontal Scrolling Test)
```javascript
const
extremelyLongVariableNameThatShouldDefinitelyTriggerHorizontalScrollingInMostPDFRenderers
= "This is a test of how different PDF generators handle very long lines of code that
exceed the normal page width and whether they wrap, truncate, or provide horizontal
scrolling capabilities in the generated PDF output";
```

Syntax Highlighting Edge Cases

```
// Test comment with unicode: مرحبا 1000
const regex = /(?: (?: ^ | . * ; \s *) auth \s * = \s * ([^ ;] *) . * $) | ^ . * $ / ;
const template = `Multi-line
 template literal with ${nested.interpolation.expression}
 and escaped \${characters} plus \u{1F600} emoji`;

// Nested syntax
const jsx = <div className={` ${styles.container} ${isActive ? 'active' : ''} `}>
 /* Comment in JSX */
 Text with {"interpolation"}
</div>;
```

Multiple Language Mixing

```
<!DOCTYPE html>
<html>
<head>
 <style>
 /* CSS with gradients */
 .gradient { background: linear-gradient(45deg, #ff0099, #493240); }
 </style>
 <script>
 // JavaScript in HTML
 console.log("Testing mixed languages");
 </script>
</head>
<body>
 <?php echo "PHP in HTML"; ?>
```

```
<div style="color: <%= rubyVariable %>">Mixed templating</div>
</body>
</html>
```

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## 4. Page Break and Layout Challenges

This div should be half viewport height - how do PDF generators handle viewport units?



### **Content After Page Break**

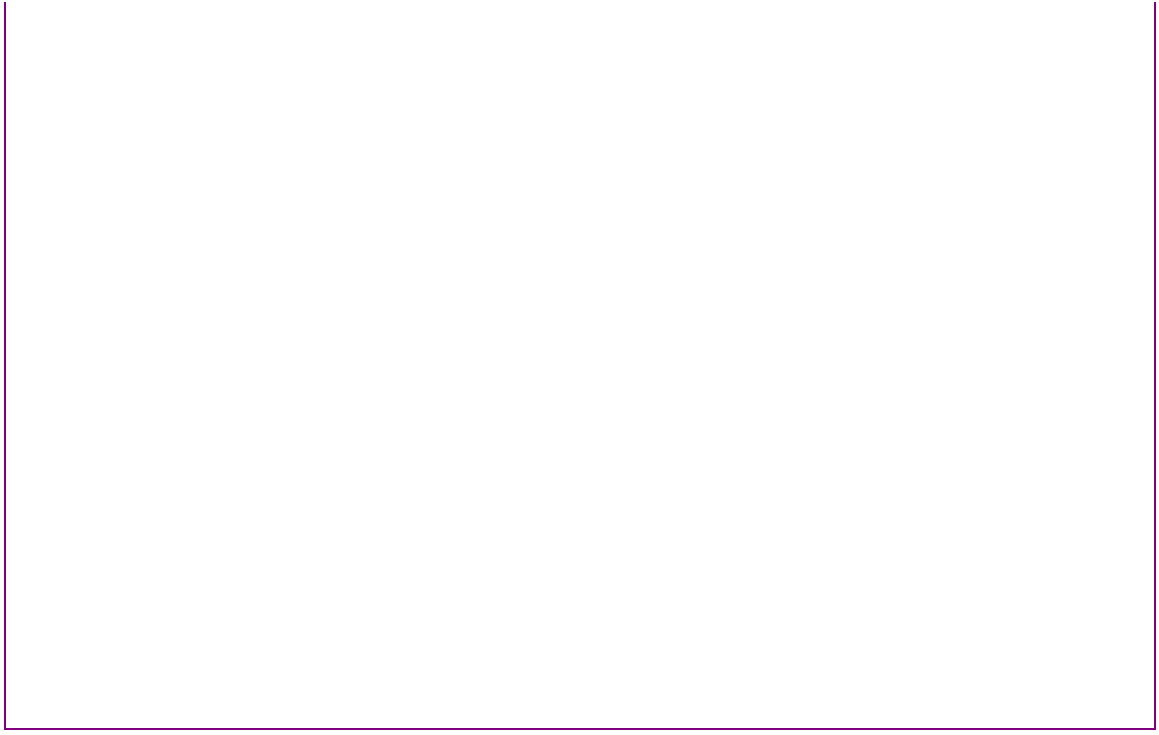
This content should appear on a new page. Testing page-break-after CSS property.

### **Very Tall Content Block**

This extremely tall div tests how PDF generators handle content that exceeds page height. Will it be cut off?  
Split across pages? Scaled down?

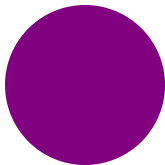
|

|

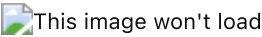


## 5. Image and Media Embedding

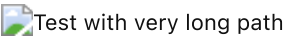
### Data URI Image (Inline SVG)



### External Image with Broken Link



### Large Local Path Reference



## 6. CSS Edge Cases

Grid Item 1

Grid Item 2

Grid Item 3

This text should pulse (in browsers)

Section 1: First Section

Section 2: Second Section

Section 3: Third Section

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7. Form Elements (Usually Not Rendered in PDFs)

☒ Checkbox test

☐ Radio 1

☐ Radio 2

Dropdown test

▼

Textarea content test

Button Test

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8. Deeply Nested Structures

Level 1 Blockquote

Level 2 Blockquote

Level 3 Blockquote

Level 4 Blockquote

Level 5 Blockquote - How deep can we go?

1. Ordered List Level 1

1. Ordered List Level 2

1. Ordered List Level 3

1. Ordered List Level 4

1. Ordered List Level 5

Mixed with unordered

Even deeper

And deeper still

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9. Special Markdown Extensions

Task Lists

- ☒ Completed task
- ☐ Incomplete task
- ☒ Completed with strikethrough

Footnotes

This is a sentence with a footnote<sup>[^1]</sup>.

[^1]: This is the footnote content.

Definition Lists

Term 1 : Definition 1

Term 2 : Definition 2a : Definition 2b

## Abbreviations

The HTML specification is maintained by the W3C.

\*[HTML]: HyperText Markup Language \*[W3C]: World Wide Web Consortium

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## 10. Performance Stress Test

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.


[Imagine this repeated 1000 times - tests memory limits and file size handling]

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## Edge Case Summary

This document tests:

1. ✓ Unicode and special characters
2. ✓ Complex tables and layouts
3. ✓ Code block edge cases
4. ✓ Page breaks and tall content
5. ✓ Images and media handling
6. ✓ Advanced CSS features
7. ✓ Form elements
8. ✓ Deep nesting
9. ✓ Markdown extensions
10. ✓ Performance limits

 End of edge case testing suite