

# Guide: Progressive Outline

## 1 Function documentation

This section details all the parameters available for the progressive-outline function.

Option	Type	Effect & Expected Values
level-X-mode	string	Defines the visibility of level X (1, 2, or 3). Values: "all", "current", "current-parent", "none".
text-styles	dict	Dictionary of Typst text(...) styles for each level. Structure: (level-X: (active: (...), completed: (...), inactive: (...))).
spacing	dict	Controls vertical space (v-between-X-Y) and horizontal indentation (indent-X) between elements.
show-numbering	bool	Enables or disables the display of heading numbering.
numbering-format	str   func	Typst numbering format (e.g., "1.1") or custom function (.n) => ....

## 2 Visibility

This section covers the level-X-mode parameters.

### 2.1 The ‘current-parent’ mode

The current-parent mode is the most powerful: it only displays the “siblings” of the current element. This allows you to see the plan of the current section without being distracted by other chapters.

```
progressive-outline(  
  level-1-mode: 'all',  
  level-2-mode: 'current-parent'  
)
```

**Visibility Demonstration H2**

Function documentation

Visibility

The ‘current-parent’ mode

Isolation via ‘current’ mode

Deep nesting (Level 3)

Style Customization

Fine-grained spacing management

Numbering system

Additional information

### 2.2 Isolation via ‘current’ mode

If you want an ultra-minimalist rendering, the current mode hides everything except the exact entry where you are located.

```
progressive-outline(  
  level-1-mode: 'current',  
  level-2-mode: 'none'  
)
```

**Isolated Visibility Demonstration**

Visibility

## 2.3 Deep nesting (Level 3)

For complex structures, you can enable Level 3. Using current-parent will show siblings at the current depth.

### 2.3.1 Deep Component A

### 2.3.2 Deep navigation test

```
progressive-outline(  
  level-2-mode: 'all',  
  level-3-mode: 'current-parent'  
)
```

#### Level 3 Siblings

##### Function documentation

##### Visibility

The 'current-parent' mode

Isolation via 'current' mode

##### Deep nesting (Level 3)

Deep Component A

Deep navigation test

##### Style Customization

The 3-state system

The anti-jitter mechanism

Colors and decorations

##### Fine-grained spacing management

Inter-level spacing

Horizontal indentation

##### Numbering system

Complex hierarchical formats

Advanced textual prefixes

##### Additional information

## 3 Style Customization

The function allows you to modify the appearance of headings based on their state (**completed**, **active**, or **inactive**).

### 3.1 The 3-state system

By default, headings can be in one of three states:

- **completed**: The heading has already been passed.
- **active**: This is the current heading.
- **inactive**: The heading is yet to come.

```
text-styles: (  
  level-1: (  
    active: (fill: eastern, weight:  
'bold'),  
    completed: (fill: gray.lighten(50%)),  
    inactive: (fill: black)  
  )  
)
```

#### Past, Present, Future

##### Function documentation

##### Visibility

##### Style Customization

Fine-grained spacing management

Numbering system

Additional information

### 3.2 The anti-jitter mechanism

Anti-jitter ensures that switching from a thin font to a bold one doesn't move the text. We use a ghost box to reserve the maximum space required.

```
text-styles: (
  level-1: (
    active: (weight: 'black', fill:
eastern, size: 1.2em),
    inactive: (weight: 'light', fill:
gray, size: 1.2em)
  )
)
```

## Stability Test H1

Function documentation

Visibility

## Style Customization

Fine-grained spacing management

Numbering system

Additional information

## 3.3 Colors and decorations

Each level can have its own rules for colors, italics, or bold.

```
text-styles: (
  level-2: (
    active: (style: 'italic', fill: blue,
weight: 'bold'),
    inactive: (fill: luma(200))
  )
)
```

## Creative Style H2

Function documentation

Visibility

The 'current-parent' mode

Isolation via 'current' mode

Deep nesting (Level 3)

Style Customization

The 3-state system

The anti-jitter mechanism

**Colors and decorations**

Fine-grained spacing management

Inter-level spacing

Horizontal indentation

Numbering system

Complex hierarchical formats

Advanced textual prefixes

Additional information

## 4 Fine-grained spacing management

The spacing dictionary sculpts the rhythm.

### 4.1 Inter-level spacing

You can define the exact space between an H1 heading and an H2 heading, or between two headings of the same level.

```
spacing: (
  v-between-1-1: 2em,
  v-between-1-2: 1.2em,
  v-between-2-2: 0.8em,
  v-between-2-1: 1.5em
)
```

## Airy Vertical Rhythm

### Function documentation

#### Visibility

The 'current-parent' mode  
Isolation via 'current' mode  
Deep nesting (Level 3)

#### Style Customization

The 3-state system  
The anti-jitter mechanism  
Colors and decorations

### Fine-grained spacing management

#### Inter-level spacing

Horizontal indentation

#### Numbering system

Complex hierarchical formats  
Advanced textual prefixes

#### Additional information

## 4.2 Horizontal indentation

Indentation defines the offset to the right for each depth level.

```
spacing: (
  indent-2: 3em,
  indent-3: 6em
)
```

## Marked Indentation

### Function documentation

#### Visibility

The 'current-parent' mode  
Isolation via 'current' mode  
Deep nesting (Level 3)  
    Deep Component A  
    Deep navigation test

#### Style Customization

The 3-state system  
The anti-jitter mechanism  
Colors and decorations

### Fine-grained spacing management

Inter-level spacing

#### Horizontal indentation

#### Numbering system

Complex hierarchical formats  
Advanced textual prefixes

#### Additional information

## 5 Numbering system

The function relies on Typst's native engine.

### 5.1 Complex hierarchical formats

The numbering-format parameter accepts all standard Typst models (1, a, i, I, A).

```
show-numbering: true,  
numbering-format: 'I.a.1. '
```

## Legal Format

### I. Function documentation

### II. Visibility

- II.a. The 'current-parent' mode
- II.b. Isolation via 'current' mode
- II.c. Deep nesting (Level 3)
  - II.c.1. Deep Component A
  - II.c.2. Deep navigation test

### III. Style Customization

- III.a. The 3-state system
- III.b. The anti-jitter mechanism
- III.c. Colors and decorations

### IV. Fine-grained spacing management

- IV.a. Inter-level spacing
- IV.b. Horizontal indentation

### V. Numbering system

- V.a. Complex hierarchical formats
- V.b. Advanced textual prefixes

### VI. Additional information

## 5.2 Advanced textual prefixes

To use long words like “Chapter” without errors, pass a function. This prevents Typst from interpreting letters like ‘a’ or ‘i’ as numbering models.

```
show-numbering: true,  
numbering-format: (..n) => 'Chapter ' +  
numbering('1', ..n) + ' : '
```

### Secure 'Chapter' Prefix

Chapter 1 : Function documentation

Chapter 2 : Visibility

Chapter 3 : Style Customization

Chapter 4 : Fine-grained spacing management

Chapter 5 : Numbering system

Chapter 6 : Additional information

## 6 Additional information

It is optimized to work within presentation themes (like progressive-outline), but can be used in any standard Typst document.