

Animating font-palette

CSS WG Proposal



Google

Motivation

- Animating the font-palette property manually is complicated
 - Manually retrieve color records from fonts
 - Interpolate values manually or using js libraries
 - Programmatically override colors from @font-palette-values
- Authors feedback
 - [CSS Tricks article](#), Ollie Williams: “My dream of a luridly animated emoji font is sadly unrealized.”
 - Scott Kellum (of typetura.com) has been suggesting it as a useful feature for the web

Example

Without interpolation

Candy

With interpolation

Candy

Syntax example

```
@font-palette-values --grey-palette {
  font-family: "Nabla";
  base-palette: 3;
}

@font-palette-values --pink-palette {
  font-family: "Nabla";
  base-palette: 1;
}

@keyframes anim {
  from { font-palette: --grey-palette; }
  to { font-palette: --pink-palette; }
}

:animated-palette {
  animation: anim 2s infinite;
}
```

Syntax example

```
@font-palette-values --grey-palette {  
  font-family: "Nabla";  
  base-palette: 3;  
}
```

```
@font-palette-values --pink-palette {  
  font-family: "Nabla";  
  base-palette: 1;  
}
```

```
@keyframes anim {  
  from { font-palette: --grey-palette; }  
  to { font-palette: --pink-palette; }  
}
```

```
.animated-palette {  
  animation: anim 2s infinite;  
}
```

`getComputedStyle(elem) ["font-palette"] at 1s?`

Interpolating font-palette

New syntax of font-palette property

Value	normal light dark <palette-identifier> <palette-mix()>
-------	---

Mixing Palettes: the 'palette-mix()' Function

```
palette-mix(  
  <color-interpolation-method> ,  
  [  
    [normal | light | dark | <palette-identifier> | <palette-mix()>] &&  
    <percentage [0,100]>?  
  ]#{2}  
)
```

- Supports all **<color-interpolation-method>** from **<color-mix()>** grammar.
- **<percentage [0,100]>** are normalized the same way as for **<color-mix()>**.

Interpolating font-palette

New syntax of font-palette property

Value	normal light dark <palette-identifier> <palette-mix()>
Animation type	by mix value

Summary

- Animating font-palette programmatically is complicated
- With **palette-mix()** and new **animation type “by mix value”** web authors will be able to animate just by using declarative CSS

[CSS WG Proposal Issue #8922](#)