

# Converting Colors

XYZ(103.4013, 100.0000,  
190.9387)

Have a look what the booklet for  
XYZ(103.4013, 100.0000, 190.9387)  
contains.

<b>XYZ(87.8322, 93.9419, 108.1111)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(87.8322, 93.9419,  
108.1111)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EFFAFF
RGB	239, 250, 255
RGB Percent	94%, 98%, 100%
CMY	0.0627, 0.0196, 0.0000
CMYK	0.06, 0.02, 0.00, 0.00
HSL	199°, 100%, 97%
HSV	199°, 6%, 100%
XYZ	87.8322, 93.9419, 108.1111
YIQ	247.2810, -8.1610, -0.7770

# Conversions

## Conversions Part 2

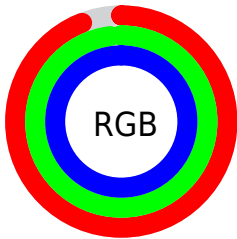
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	239, 246, 255
Decimal	15727359
CIE <sub>Lab</sub>	97.61, -2.68, -3.65
CIE <sub>LCh</sub>	98, 4.526, 233.731
Yxy	93.9419, 0.3030, 0.3241
Android (android.graphics.Color)	4293917439 (0xFFE0FAFF)
YUV	247.2810, 3.8055, -7.2624
Hunter-Lab	96.9236, -7.8596, 1.7130

# Details

The XYZ color **87.8322, 93.9419, 108.1111** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **89.1699, 92.1913, 94.7578**, and the grayscale version is **88.6136, 93.2284, 101.5257**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **49.0133, 52.7281, 61.0203** is the 20% darker color. If you saturate the color by 10%, you get **77.4019, 84.9723, 106.9295**, and if you desaturate by 10%, it is **95.0500, 100.0000, 108.9000**.

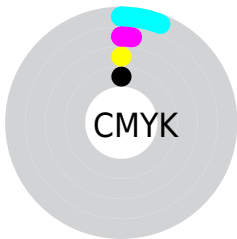
# Distribution



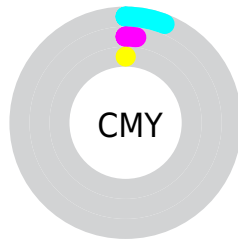
- Red (94%)
- Green (98%)
- Blue (100%)



- Red (94%)
- Yellow (96%)
- Blue (100%)



- Cyan (6%)
- Magenta (2%)
- Yellow (0%)
- Black (0%)




- Cyan (6%)
- Magenta (2%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 87.8322, 93.9419, 108.1111 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 87.8322, 93.9419, 108.1111 by changing the saturation by 10% instead.




 87.8322, 93.9419,  
108.1111

 87.8322, 93.9419,  
108.1111

509.2972,  
540.7720, 607.3636

 66.5144, 71.2546,  
82.4370


143.2172,  
152.8020, 174.4086

 48.9594, 52.5500,  
61.1879


178.0152,  
189.7436, 215.8690

 34.8017, 37.4437,  
43.9453


218.0374,  
232.2054, 263.4287

 23.6759, 25.5512,  
30.2906

263.6489,  
280.5719, 317.5061

 15.2168, 16.4882,  
19.8053

315.2154,  
335.2274, 378.5197

 9.0590, 9.8703,  
12.0710

373.1020,

 4.8371, 5.3130,

396.5563, 446.8881

6.6689

437.6741,  
464.9431, 523.0299

■ 2.1858, 2.4321,  
3.1806

■ 0.7352, 0.8423,  
1.1876

■ 87.8322, 93.9419,  
108.1111

■ 87.8322, 93.9419,  
108.1111

■ 77.4019, 84.9723,  
106.9295

95.0500, 100.0000,  
108.9000

■ 68.2363, 76.8051,  
105.8362

■ 60.2823, 69.4138,  
104.8287

■ 53.4804, 62.7656,  
103.9040

■ 47.7653, 56.8250,  
103.0586

■ 43.0650, 51.5527,  
102.2886

■ 39.2981, 46.9047,  
101.5900

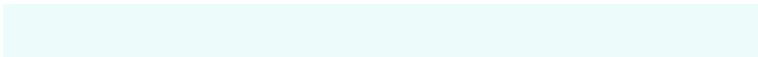
■ 36.3694, 42.8298,  
100.9579

■ 34.1607, 39.2649,  
100.3862

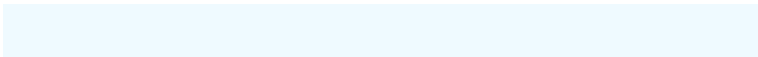
# Harmonies

## Analogous

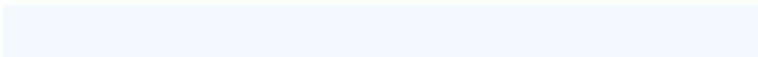
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



87.0414, 93.9419, 105.1671



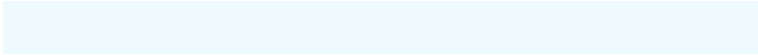
87.8322, 93.9419, 108.1111



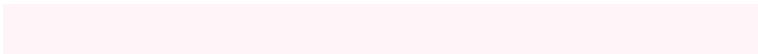
89.0189, 93.9419, 109.4986

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



87.8322, 93.9419, 108.1111



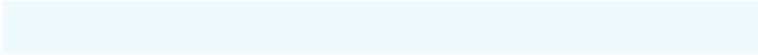
91.7728, 93.9419, 103.0631



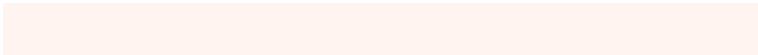
88.2962, 93.9419, 95.9316

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



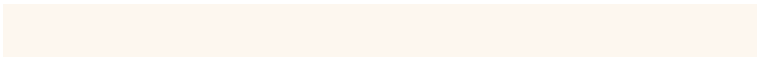
87.8322, 93.9419, 108.1111



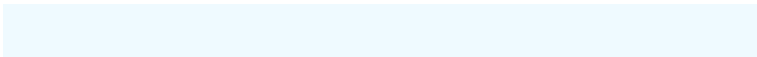
89.1699, 92.1913, 94.7578

# Split Complementary

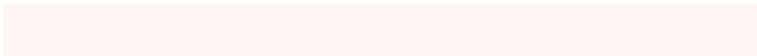
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



89.5596, 93.9419, 95.3988



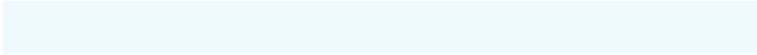
87.8322, 93.9419, 108.1111



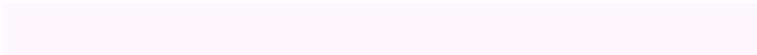
91.5748, 93.9419, 99.4595

# Square

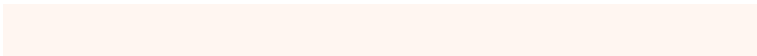
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



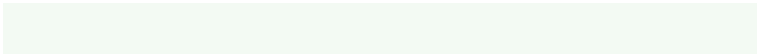
87.8322, 93.9419, 108.1111



91.3001, 93.9419, 106.5393



90.7617, 93.9419, 96.6755

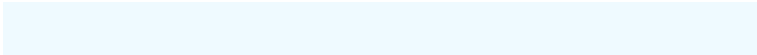


87.3075, 93.9419, 98.1489

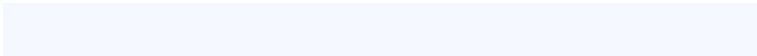


# Rectangle

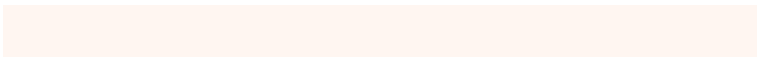
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



87.8322, 93.9419, 108.1111



89.8780, 93.9419, 109.3310



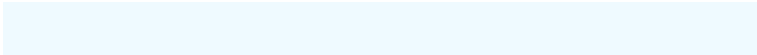
90.7617, 93.9419, 96.6755



88.7025, 93.9419, 95.5518

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



87.8346, 93.9458, 108.1117



92.6927, 98.0339, 108.6447



87.6563, 96.3907, 99.4152



19.8648, 21.0040, 23.2571



0.0000, 0.0000, 0.0000

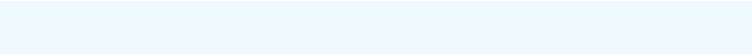


20.3446, 21.4041, 23.3091

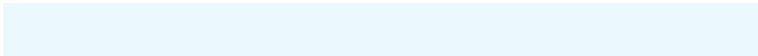


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



87.8346, 93.9458, 108.1117



85.9409, 92.3378, 107.9012



85.4594, 89.1954, 107.3200



18.0484, 19.4685, 23.0565



17.6211, 20.1517, 52.3955



1.8133, 2.1574, 5.1341



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



89.3633, 89.8966, 103.0889



87.8754, 87.2644, 101.5336



91.5680, 96.9876, 95.5572



18.5371, 18.1982, 21.4455



25.6825, 12.7623, 22.7763

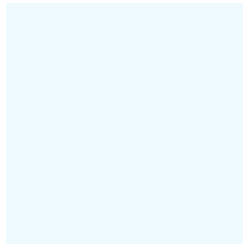


2.5499, 1.2623, 2.4772



# Previews

## White Background



This preview shows how the XYZ color 87.8322, 93.9419, 108.1111 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

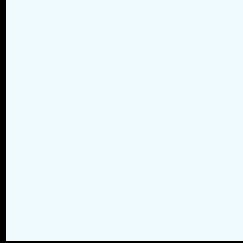
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 87.8322, 93.9419, 108.1111 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

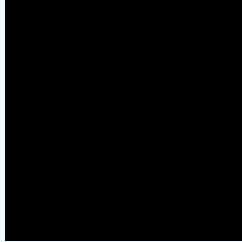
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

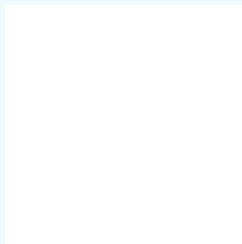
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 87.8322, 93.9419, 108.1111

## Background



This preview shows how black text looks on a background with the XYZ color 87.8322, 93.9419, 108.1111.



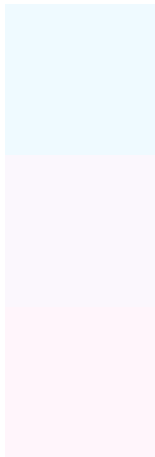
This preview shows how white text looks on a background with the XYZ color 87.8322, 93.9419,

108.1111.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

87.8322, 93.9419, 108.1111

### Protanopia

90.7740, 94.1226, 106.3117

### Deuteranopia

91.3050, 93.5299, 104.5076

## **Tritanopia**

89.6234, 93.9476, 108.0178

# Trichromacy



**Original Color**

87.8322, 93.9419, 108.1111

**Protanomaly**

89.8146, 94.0647, 107.1885

**Deuteranomaly**

89.8984, 93.6895, 105.4412

**Tritanomaly**

88.8878, 94.0260, 108.0717

# Monochromacy



**Original Color**

87.8322, 93.9419, 108.1111

**Achromatopsia**

88.4070, 93.0111, 101.2891

**Achromatomaly**

88.1309, 93.2700, 103.8004

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 87.8322, 93.9419, 108.1111 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(239, 250, 255)` looks like.

```
.text, #text, p{  
    color:rgb(239, 250, 255)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(239, 250, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 250, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 87.8322, 93.9419, 108.1111 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(239, 250, 255) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(239, 250, 255) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(239, 250, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 250, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(239, 250, 255);  
box-shadow:4px 4px 4px 4px rgb(239, 250,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 87.8322, 93.9419, 108.1111 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 250, 255) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(239,  
250, 255) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor