

# Converting Colors

XYZ(163.1600, 127.1885,  
119.2995)

Have a look what the booklet for  
XYZ(163.1600, 127.1885, 119.2995)  
contains.

<b>XYZ(89.8645, 89.6291, 107.1715)</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(89.8645, 89.6291,  
107.1715)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFEEFF
RGB	255, 238, 255
RGB Percent	100%, 93%, 100%
CMY	0.0000, 0.0666, 0.0000
CMYK	0.00, 0.07, 0.00, 0.00
HSL	300°, 100%, 97%
HSV	300°, 7%, 100%
XYZ	89.8645, 89.6291, 107.1715
YIQ	245.0210, 4.6750, 8.8910

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 238, 255
Decimal	16772863
CIE <sub>Lab</sub>	95.84, 8.66, -6.11
CIE <sub>LCh</sub>	96, 10.602, 324.781
Yxy	89.6291, 0.3135, 0.3127
Android (android.graphics.Color)	4294962943 (0xFFFFEEFF)
YUV	245.0210, 4.9196, 8.7516
Hunter-Lab	94.6726, 3.7574, -0.8467

# Details

The XYZ color **89.8645, 89.6291, 107.1715** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **86.4554, 95.8716, 94.8419**, and the grayscale version is **86.7688, 91.2875, 99.4121**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **50.2097, 49.5389, 60.3417** is the 20% darker color. If you saturate the color by 10%, you get **82.9602, 75.8204, 104.8701**, and if you desaturate by 10%, it is **95.0500, 100.0000, 108.9000**.

# Distribution



- Red (100%)
- Green (93%)
- Blue (100%)



- Red (100%)
- Yellow (93%)
- Blue (100%)



- Cyan (0%)
- Magenta (7%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (7%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 89.8645, 89.6291, 107.1715 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 89.8645, 89.6291, 107.1715 by changing the saturation by 10% instead.




 89.8645, 89.6291,  
107.1715

 89.8645, 89.6291,  
107.1715


515.8344,  
526.8236, 604.3905

 68.2042, 67.6731,  
81.6530

146.0295,  
146.8231, 173.1156

 50.3381, 49.6318,  
60.5454

181.2648,  
182.8298, 214.3783

 35.9010, 35.1209,  
43.4302

221.7559,  
224.2889, 261.7260

 24.5275, 23.7560,  
29.8889

267.8680,  
271.5848, 315.5774

 15.8523, 15.1528,  
19.5029

319.9666,  
325.1018, 376.3511

 9.5098, 8.9267,  
11.8538

378.4170,

 5.1350, 4.6934,

385.2243, 444.4654

6.5229

443.5845,  
452.3368, 520.3391

■ 2.3622, 2.0685,  
3.0917

■ 0.8262, 0.6468,  
1.1416

■ 89.8645, 89.6291,  
107.1715

■ 89.8645, 89.6291,  
107.1715

■ 82.9602, 75.8204,  
104.8701

95.0500, 100.0000,  
108.9000

■ 77.0616, 64.0232,  
102.9039

■ 72.1235, 54.1470,  
101.2578

■ 68.0950, 46.0900,  
99.9150

■ 64.9207, 39.7414,  
98.8569

■ 62.5390, 34.9779,  
98.0630

■ 60.8801, 31.6602,  
97.5100

■ 59.8622, 29.6244,  
97.1707

■ 59.3823, 28.6647,  
97.0108

# Harmonies

## Analogous

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



87.5674, 89.6291, 112.9472



89.8645, 89.6291, 107.1715



90.9105, 89.6291, 99.0625

# Triad

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



89.8645, 89.6291, 107.1715



85.7021, 89.6291, 82.4224



80.1880, 89.6291, 104.4945

# Complementary

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



89.8645, 89.6291, 107.1715



86.4554, 95.8716, 94.8419

# 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.



79.7142, 89.6291, 96.1339



89.8645, 89.6291, 107.1715



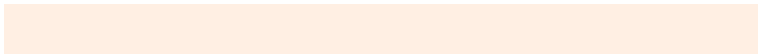
82.8556, 89.6291, 83.6936

# Square

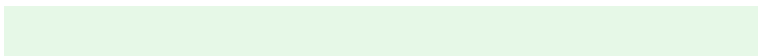
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



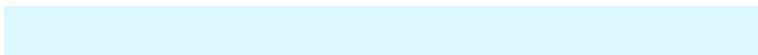
89.8645, 89.6291, 107.1715



88.4725, 89.6291, 85.0223



80.6800, 89.6291, 88.5989



81.9893, 89.6291, 111.3408



# Rectangle

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



89.8645, 89.6291, 107.1715



90.7407, 89.6291, 93.5415



80.6800, 89.6291, 88.5989



79.8699, 89.6291, 101.7554

# Sweetspot

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



89.8663, 89.6326, 107.1721



93.4445, 96.7891, 108.3648



83.8882, 86.5508, 106.8923



20.0178, 20.7505, 23.2001



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.



89.8663, 89.6326, 107.1721



88.8839, 87.6679, 106.8446



88.5282, 89.0973, 100.1257



18.7928, 18.3004, 22.7918



30.9803, 14.8814, 50.6741



3.0164, 1.4490, 4.9340



# Inverse Universe

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



89.8663, 89.6326, 107.1721



88.8839, 87.6679, 106.8446



87.7338, 96.3829, 101.5738



18.7928, 18.3004, 22.7918



30.9803, 14.8814, 50.6741



3.0164, 1.4490, 4.9340



# Previews

## White Background



This preview shows how the XYZ color 89.8645, 89.6291, 107.1715 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

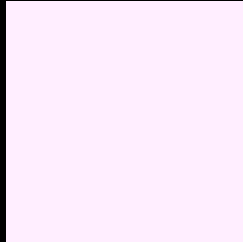
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 89.8645, 89.6291, 107.1715 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

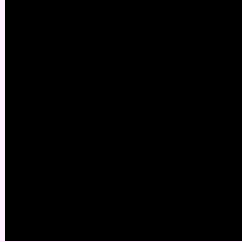
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 89.8645, 89.6291, 107.1715

## Background



This preview shows how black text looks on a background with the XYZ color 89.8645, 89.6291, 107.1715.



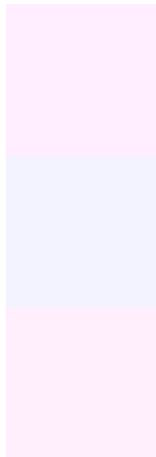
This preview shows how white text looks on a background with the XYZ color 89.8645, 89.6291,



# 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

89.8645, 89.6291, 107.1715

### Protanopia

86.7643, 89.7789, 107.3638

### Deuteranopia

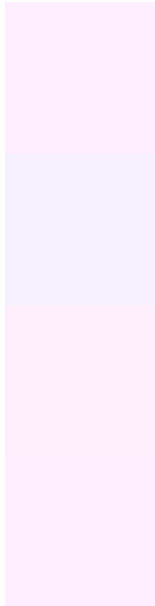
89.2271, 89.3741, 103.8149



## Tritanopia

89.4976, 89.4399, 107.1543

# Trichromacy



## Original Color

89.8645, 89.6291, 107.1715

## Protanomaly

87.8631, 89.9048, 107.3302

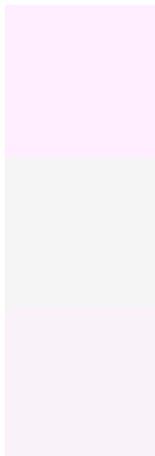
## Deuteranomaly

89.3852, 89.4373, 104.6475

## Tritanomaly

89.4976, 89.4399, 107.1543

# Monochromacy



## Original Color

89.8645, 89.6291, 107.1715

## Achromatopsia

86.7900, 91.3099, 99.4364

## Achromatomaly

87.9179, 90.4836, 102.4538

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 89.8645, 89.6291, 107.1715 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(255, 238, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 238, 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(255, 238, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 238, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 89.8645, 89.6291, 107.1715 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(255, 238, 255) }
```



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

```
.border{ border-color:rgb(255, 238, 255) }
```

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

Here you see how a box with a 4 pixel rgb(255, 238, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 238, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 238, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 238,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 89.8645, 89.6291, 107.1715 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 238, 255) }
```

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

```
.background{ background-color: rgb(255,  
238, 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