

# Converting Colors

XYZ(63.2714, 64.7625, 11.0011)

Have a look what the booklet for  
XYZ(63.2714, 64.7625, 11.0011)  
contains.

<b>XYZ(63.1827, 64.5857, 10.9699)</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(63.1827, 64.5857,  
10.9699)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFCC26
RGB	255, 204, 38
RGB Percent	100%, 80%, 15%
CMY	0.0000, 0.2000, 0.8509
CMYK	0.00, 0.20, 0.85, 0.00
HSL	46°, 100%, 57%
HSV	46°, 85%, 100%
XYZ	63.1827, 64.5857, 10.9699
YIQ	200.3250, 83.6820, -40.8140

# Conversions

## Conversions Part 2

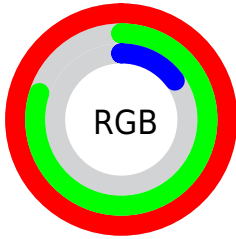
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">105, 255, 38</a>
Decimal	<a href="#">16763942</a>
CIELab	<a href="#">84.27, 4.17, 79.82</a>
CIELCh	<a href="#">84, 79.925, 87.006</a>
Yxy	<a href="#">64.5857, 0.4554, 0.4655</a>
Android (android.graphics.Color)	<a href="#">4294954022</a> ( <a href="#">0xFFFFCC26</a> )
YUV	<a href="#">200.3250, -80.0262, 47.9500</a>
Hunter-Lab	<a href="#">80.3652, -0.3034, 48.1625</a>

# Details

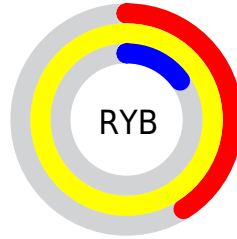
The XYZ color **63.1827, 64.5857, 10.9699** is a light color, and the websafe version is hex **FFCC33**. The color can be described as light washed yellow. A complement of this color would be **22.4219, 14.7770, 96.2774**, and the grayscale version is **55.5444, 58.4370, 63.6379**.

A 20% lighter version of the original color is **79.3983, 93.7393, 26.4791**, and **32.8987, 33.1501, 4.6647** is the 20% darker color. If you saturate the color by 10%, you get **61.5066, 61.6825, 9.0285**, and if you desaturate by 10%, it is **65.1976, 67.7173, 14.4119**.

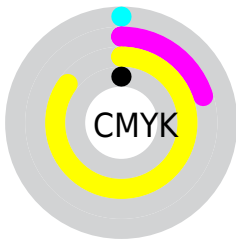
# Distribution



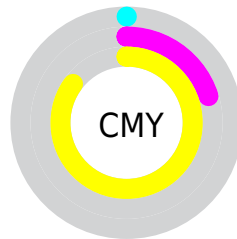
- Red (100%)
- Green (80%)
- Blue (15%)



- Red (41%)
- Yellow (100%)
- Blue (15%)



- Cyan (0%)
- Magenta (20%)
- Yellow (85%)
- Black (0%)




- Cyan (0%)
- Magenta (20%)
- Yellow (85%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 63.1827, 64.5857, 10.9699 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 63.1827, 64.5857, 10.9699 by changing the saturation by 10% instead.




 63.1827, 64.5857,  
10.9699

 63.1827, 64.5857,  
10.9699


425.8814,  
441.3017, 208.1909


 46.2482, 47.1252,  
5.9327


 108.5134,  
111.4540, 28.2403


 32.6472, 33.1347,  
2.7361


 137.6403,  
141.6306, 41.3105


 22.0143, 22.2296,  
0.9615


 171.5621,  
176.8147, 57.8956

 13.9840, 14.0257,  
0.0000

 210.6441,  
217.3908, 78.4139

 8.1912, 8.1386,  
0.0000

 255.2517,  
263.7431, 103.2840

 4.2704, 4.1837,  
0.0000

 305.7502,

 1.8562, 1.7769,

316.2561, 132.9246

0.0000

362.5049,  
375.3141, 167.7540

■ 0.5512, 0.4727,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 63.1827, 64.5857,  
10.9699

■ 63.1827, 64.5857,  
10.9699

■ 61.5066, 61.6825,  
9.0285


■ 65.1976, 67.7173,  
14.4119


■ 60.7716, 60.3237,  
8.4406


■ 67.5969, 71.0887,  
19.6117

■ 70.4230, 74.7205,  
26.7824

■ 73.7108, 78.6274,  
36.1056

 77.4915, 82.8229,  
47.7423

 81.7932, 87.3191,  
61.8380

 86.6417, 92.1273,  
78.5262

 92.0612, 97.2580,  
97.9308

95.0496, 99.9998,  
108.9000

# Harmonies

## Analogous

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



81.8623, 64.5857, 16.1385



63.1827, 64.5857, 10.9699



47.1846, 64.5857, 14.3034

# Triad

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



63.1827, 64.5857, 10.9699



35.7689, 64.5857, 124.5602



94.6101, 64.5857, 137.9284

# Complementary

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



63.1827, 64.5857, 10.9699



22.4219, 14.7770, 96.2774

# 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.



78.1862, 64.5857, 197.9306



63.1827, 64.5857, 10.9699



44.6464, 64.5857, 187.9484

# Square

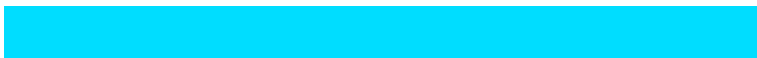
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



63.1827, 64.5857, 10.9699



33.2711, 64.5857, 65.3508



59.6252, 64.5857, 219.6135



102.0638, 64.5857, 75.5409



# Rectangle

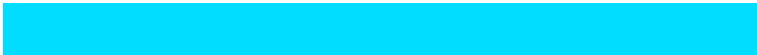
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



63.1827, 64.5857, 10.9699



39.6945, 64.5857, 22.5771



59.6252, 64.5857, 219.6135



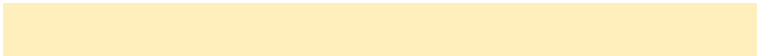
89.8176, 64.5857, 160.0053

# Sweetspot

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



63.1842, 64.5889, 10.9712



81.3823, 86.9002, 60.4577



43.8760, 23.4238, 12.3927



17.0909, 18.2615, 11.8511



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.



63.1842, 64.5889, 10.9712



60.7721, 60.3243, 8.4407



60.1303, 84.0424, 14.8870



19.1782, 20.3245, 19.0566



31.8751, 31.7613, 4.4506



3.1868, 3.2590, 0.4611



# Inverse Universe

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



22.4219, 14.7770, 96.2774



19.6619, 10.4438, 95.5873



23.1825, 10.8952, 95.4881



17.3494, 18.0705, 22.8235



10.3677, 5.6450, 49.9777



1.0889, 0.7084, 4.8926



# Previews

## White Background



This preview shows how the XYZ color 63.1827, 64.5857, 10.9699 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 63.1827, 64.5857, 10.9699 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 63.1827, 64.5857, 10.9699**

## **Background**



This preview shows how black text looks on a background with the XYZ color 63.1827, 64.5857, 10.9699.



This preview shows how white text looks on a background with the XYZ color 63.1827, 64.5857,



# 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

63.1827, 64.5857, 10.9699

### Protanopia

58.6023, 64.7463, 11.4161

### Deuteranopia

65.0673, 64.5838, 23.2239



## Tritanopia

71.6724, 64.2998, 67.0261

# Trichromacy



## Original Color

63.1827, 64.5857, 10.9699

## Protanomaly

60.2303, 64.4913, 11.1930

## Deuteranomaly

64.1573, 64.5964, 17.2705

## Tritanomaly

66.5449, 63.6925, 35.5746

# Monochromacy



## Original Color

63.1827, 64.5857, 10.9699

## Achromatopsia

54.8990, 57.7580, 62.8985

## Achromatomaly

55.2096, 58.9120, 33.6606

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 63.1827, 64.5857, 10.9699 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, 204, 38)` looks like.

```
.text, #text, p{  
    color:rgb(255, 204, 38)  
}
```

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, 204, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 204, 38) }
```

## Border

The CSS property to change the border of an element to XYZ 63.1827, 64.5857, 10.9699 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, 204, 38) }
```



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

```
.border{ border-color:rgb(255, 204, 38) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 204, 38)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 204, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 204, 38);  
box-shadow:4px 4px 4px 4px rgb(255, 204,  
38) }
```

# Background

The CSS property to change the background color of an element to XYZ 63.1827, 64.5857, 10.9699 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 204, 38) }
```

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

```
.background{ background-color: rgb(255,  
204, 38) }
```

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