

# Converting Colors

XYZ(32.1351, 46.7039, 31.3637)

Have a look what the booklet for  
XYZ(32.1351, 46.7039, 31.3637)  
contains.

<b>XYZ(32.1812, 46.7209, 31.3667)</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(32.1812, 46.7209,  
31.3667)**

# Conversions

## Conversions Part 1

Format	Color
Hex	72C88A
RGB	114, 200, 138
RGB Percent	45%, 78%, 54%
CMY	0.5529, 0.2157, 0.4588
CMYK	0.43, 0.00, 0.31, 0.22
HSL	137°, 44%, 62%
HSV	137°, 43%, 78%
XYZ	32.1812, 46.7209, 31.3667
YIQ	167.2180, -31.3540, -37.5140

# Conversions

## Conversions Part 2

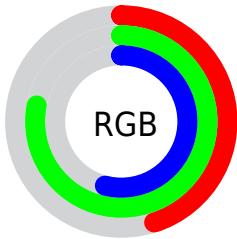
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">114, 181, 200</a>
Decimal	<a href="#">7522442</a>
CIELab	<a href="#">74.01, -39.49, 23.10</a>
CIElCh	<a href="#">74, 45.749, 149.670</a>
Yxy	<a href="#">46.7209, 0.2918, 0.4237</a>
Android (android.graphics.Color)	<a href="#">4285712522 (0xFF72C88A)</a>
YUV	<a href="#">167.2180, -14.4045, -46.6722</a>
Hunter-Lab	<a href="#">68.3527, -35.5774, 20.6390</a>

# Details

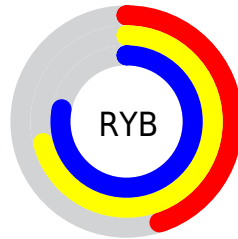
The XYZ color **32.1812, 46.7209, 31.3667** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **37.6748, 27.4497, 44.3888**, and the grayscale version is **36.9169, 38.8395, 42.2962**.

A 20% lighter version of the original color is **61.6366, 83.7608, 62.7880**, and **13.6905, 21.8852, 12.7352** is the 20% darker color. If you saturate the color by 10%, you get **28.8832, 45.1347, 26.1204**, and if you desaturate by 10%, it is **36.1891, 48.6596, 37.3718**.

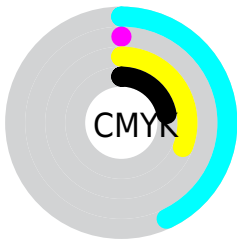
# Distribution



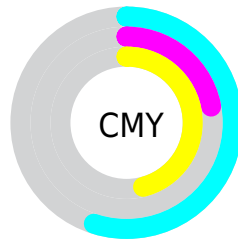
- Red (45%)
- Green (78%)
- Blue (54%)



- Red (45%)
- Yellow (71%)
- Blue (78%)



- Cyan (43%)
- Magenta (0%)
- Yellow (31%)
- Black (22%)




- Cyan (55%)
- Magenta (22%)
- Yellow (46%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.1812, 46.7209, 31.3667 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 32.1812, 46.7209, 31.3667 by changing the saturation by 10% instead.





 32.1812, 46.7209,  
31.3667


 32.1812, 46.7209,  
31.3667


303.6745,  
373.6994, 322.6275


 21.6562, 32.8151,  
20.6174


 62.4583, 85.2969,  
62.9033

 13.7197, 21.9848,  
12.6561


 82.9411, 110.7358,  
84.5277

 8.0063, 13.8457,  
7.0643


 107.4739,  
140.7879, 110.6142

 4.1508, 8.0135,  
3.4233

136.4219,  
175.8375, 141.5814

 1.7878, 4.1036,  
1.3146

170.1507,  
216.2691, 177.8477

 0.5103, 1.7317,  
0.0737

209.0254,

 0.0000, 0.4440,

262.4670, 219.8319

0.0000

253.4116,  
314.8156, 267.9523

■ 0.0000, 0.0000,  
0.0000

■ 32.1812, 46.7209,  
31.3667

■ 32.1812, 46.7209,  
31.3667

■ 28.8832, 45.1347,  
26.1204

■ 36.1891, 48.6596,  
37.3718

■ 26.2484, 43.8738,  
21.5994

■ 40.9423, 50.9647,  
44.1610

■ 24.2305, 42.9161,  
17.7724


■ 46.4785, 53.6561,  
51.7625


■ 22.7749, 42.2344,  
14.6044


■ 52.8313, 56.7509,  
60.2021


■ 21.8169, 41.7959,  
12.0575


■ 60.0328, 60.2650,  
69.5043

 21.3644, 41.5940,  
10.6200

 68.1129, 64.2133,  
79.6929

 77.1002, 68.6101,  
90.7904

 79.6812, 69.6847,  
102.4752

 79.9451, 69.7903,  
103.8650

# Harmonies

## Analogous

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



37.0759, 46.7209, 20.9384



32.1812, 46.7209, 31.3667



30.4777, 46.7209, 50.6123

# Triad

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



32.1812, 46.7209, 31.3667



44.3164, 46.7209, 110.4243



59.5023, 46.7209, 31.6931

# Complementary

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



32.1812, 46.7209, 31.3667



37.6748, 27.4497, 44.3888

# 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.



62.0404, 46.7209, 51.1308



32.1812, 46.7209, 31.3667



52.6454, 46.7209, 100.8292

# Square

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



32.1812, 46.7209, 31.3667



36.9371, 46.7209, 100.4207



59.3924, 46.7209, 77.1395



52.8212, 46.7209, 21.0822

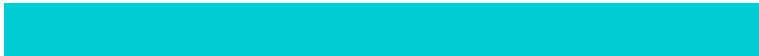


# Rectangle

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



32.1812, 46.7209, 31.3667



31.1963, 46.7209, 67.5667



59.3924, 46.7209, 77.1395



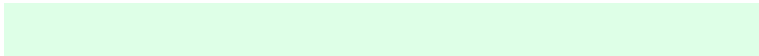
60.9022, 46.7209, 37.1807

# Sweetspot

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



32.1824, 46.7228, 31.3678



80.2763, 92.8011, 89.3575



41.8399, 51.8805, 23.7290



16.6985, 19.6278, 18.4702



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.



32.1824, 46.7228, 31.3678



50.1359, 78.2041, 45.4374



35.8266, 48.1805, 50.5577



10.6171, 11.9357, 11.9338



13.6169, 26.4591, 6.9273



0.6764, 1.2655, 0.4947



# Inverse Universe

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



37.6748, 27.4497, 44.3888



60.9031, 40.3393, 70.9033



34.1458, 26.0381, 25.8057



10.9520, 10.7642, 12.7304



18.3949, 9.1075, 17.8212



0.9007, 0.4431, 1.0000



# Previews

## White Background



This preview shows how the XYZ color 32.1812, 46.7209, 31.3667 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 32.1812, 46.7209, 31.3667 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

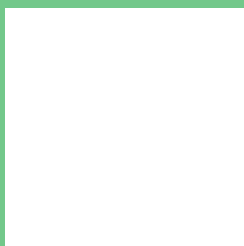
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 32.1812, 46.7209, 31.3667**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.1812, 46.7209, 31.3667.



This preview shows how white text looks on a background with the XYZ color 32.1812, 46.7209,



# 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

32.1812, 46.7209, 31.3667

### Protanopia

43.0588, 46.2616, 27.7790

### Deuteranopia

47.0341, 46.1346, 32.8115



## Tritanopia

38.9465, 46.4337, 65.9414

# Trichromacy



## Original Color

32.1812, 46.7209, 31.3667



## Protanomaly

37.9427, 45.7669, 29.0244



## Deuteranomaly

39.7205, 45.0501, 32.1932



## Tritanomaly

36.0475, 46.2461, 51.2824

# Monochromacy



## Original Color

32.1812, 46.7209, 31.3667



## Achromatopsia

36.7301, 38.6429, 42.0822



## Achromatomaly

34.3336, 40.9364, 37.5444

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.1812, 46.7209, 31.3667 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(114, 200, 138)` looks like.

```
.text, #text, p{  
    color:rgb(114, 200, 138)  
}
```

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(114, 200, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 200, 138) }
```

## Border

The CSS property to change the border of an element to XYZ 32.1812, 46.7209, 31.3667 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(114, 200, 138) }
```



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

```
.border{ border-color:rgb(114, 200, 138) }
```

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

Here you see how a box with a 4 pixel rgb(114, 200, 138) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(114, 200, 138); -webkit-box-  
shadow:4px 4px 4px 4px rgb(114, 200, 138);  
box-shadow:4px 4px 4px 4px rgb(114, 200,  
138) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.1812, 46.7209, 31.3667 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 200, 138) }
```

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

```
.background{ background-color: rgb(114,  
200, 138) }
```

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](#).

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