

# Converting Colors

XYZ(28.5490, 41.1370, 31.8673)

Have a look what the booklet for  
XYZ(28.5490, 41.1370, 31.8673)  
contains.

<b>XYZ(28.5596, 41.1730, 32.0331)</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(28.5596, 41.1730,  
32.0331)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66BD8E
RGB	102, 189, 142
RGB Percent	40%, 74%, 56%
CMY	0.6000, 0.2588, 0.4431
CMYK	0.46, 0.00, 0.25, 0.26
HSL	148°, 40%, 57%
HSV	148°, 46%, 74%
XYZ	28.5596, 41.1730, 32.0331
YIQ	157.6290, -36.7650, -33.0610

# Conversions

## Conversions Part 2

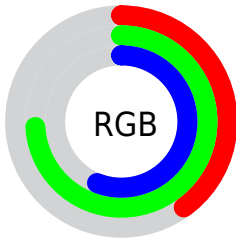
<b>Format</b>	<b>Color</b>
<b>RYB</b>	102, 162, 189
Decimal	6733198
CIELab	70.30, -37.08, 15.77
CIELCh	70, 40.290, 156.957
Yxy	41.1730, 0.2806, 0.4046
Android (android.graphics.Color)	4284923278 (0xFF66BD8E)
YUV	157.6290, -7.7051, -48.7866
Hunter-Lab	64.1662, -32.8426, 15.3175

# Details

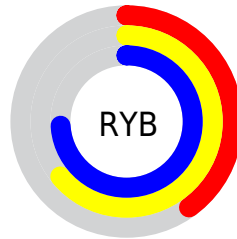
The XYZ color **28.5596, 41.1730, 32.0331** is a dark color, and the websafe version is hex **66CC99**. A complement of this color would be **31.1639, 22.4925, 31.1344**, and the grayscale version is **32.3780, 34.0642, 37.0959**.

A 20% lighter version of the original color is **56.8242, 77.0652, 64.1047**, and **11.7225, 18.6815, 13.1133** is the 20% darker color. If you saturate the color by 10%, you get **25.9252, 39.9006, 28.0900**, and if you desaturate by 10%, it is **31.7548, 42.7286, 36.3709**.

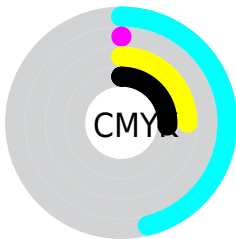
# Distribution



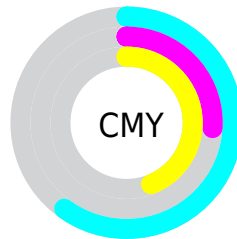
- Red (40%)
- Green (74%)
- Blue (56%)



- Red (40%)
- Yellow (64%)
- Blue (74%)



- Cyan (46%)
- Magenta (0%)
- Yellow (25%)
- Black (26%)



- Cyan (60%)
- Magenta (26%)
- Yellow (44%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.5596, 41.1730, 32.0331 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 28.5596, 41.1730, 32.0331 by changing the saturation by 10% instead.



■ 28.5596, 41.1730,  
32.0331

■ 28.5596, 41.1730,  
32.0331

287.1631,  
351.0431, 325.7674

■ 18.8905, 28.4543,  
21.1218

■ 56.7791, 76.9464,  
63.9615

■ 11.6947, 18.6684,  
13.0209

■ 76.0601, 100.7700,  
85.8156

■ 6.6069, 11.4309,  
7.3121

■ 99.2760, 129.0639,  
112.1544

■ 3.2616, 6.3575,  
3.5766

■ 126.7918,  
162.2126, 143.3964

■ 1.2936, 3.0636,  
1.3961

158.9731,  
200.6005, 179.9602

■ 0.1784, 1.1650,  
0.1387

196.1852,

■ 0.0000, 0.0329,

244.6119, 222.2642

0.0000

238.7934,  
294.6314, 270.7271

■ 0.0000, 0.0000,  
0.0000

■ 28.5596, 41.1730,  
32.0331

■ 28.5596, 41.1730,  
32.0331

■ 25.9252, 39.9006,  
28.0900

■ 31.7548, 42.7286,  
36.3709

■ 23.8127, 38.8882,  
24.5274

■ 35.5397, 44.5788,  
41.1114

■ 22.1835, 38.1173,  
21.3340


■ 39.9451, 46.7403,  
46.2662


■ 20.9914, 37.5644,  
18.4970


■ 44.9987, 49.2273,  
51.8452


■ 20.1783, 37.1996,  
16.0024


■ 50.7265, 52.0529,  
57.8582

 19.9144, 37.0832,  
15.1027

 57.1528, 55.2296,  
64.3146

 64.3011, 58.7691,  
71.2233

 72.1933, 62.6828,  
78.5933

 74.2751, 63.5914,  
86.1253

# Harmonies

## Analogous

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



31.9755, 41.1730, 21.5718



28.5596, 41.1730, 32.0331



27.8196, 41.1730, 49.3880

# Triad

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



28.5596, 41.1730, 32.0331



40.6943, 41.1730, 91.5683



50.1999, 41.1730, 26.3061

# Complementary

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



28.5596, 41.1730, 32.0331



31.1639, 22.4925, 31.1344

# 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.



53.1621, 41.1730, 40.5621



28.5596, 41.1730, 32.0331



47.2877, 41.1730, 80.6830

# Square

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



28.5596, 41.1730, 32.0331



34.3644, 41.1730, 87.3876



52.0405, 41.1730, 60.6494



44.3251, 41.1730, 18.9748



# Rectangle

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



28.5596, 41.1730, 32.0331



28.8582, 41.1730, 63.4494



52.0405, 41.1730, 60.6494



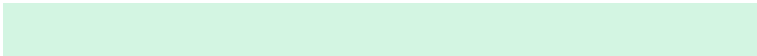
51.5978, 41.1730, 30.2646

# Sweetspot

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



28.5607, 41.1747, 32.0340



73.0875, 84.4698, 84.6088



33.1474, 43.8262, 19.2832



15.3201, 17.9697, 17.7458



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



28.5607, 41.1747, 32.0340



46.4946, 71.4901, 50.4093



32.3985, 42.7098, 52.2436



9.5863, 10.7206, 11.0710



13.4362, 24.9648, 10.3597



0.5593, 0.9911, 0.5797



# Inverse Universe

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



31.1639, 22.4925, 31.1344



51.7163, 33.9776, 48.5768



28.3586, 21.3704, 16.3621



9.7399, 9.6202, 11.0191



15.7764, 7.9417, 9.3819



0.6506, 0.3242, 0.5396



# Previews

## White Background



This preview shows how the XYZ color 28.5596, 41.1730, 32.0331 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 28.5596, 41.1730, 32.0331 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 28.5596, 41.1730, 32.0331**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.5596, 41.1730, 32.0331.



This preview shows how white text looks on a background with the XYZ color 28.5596, 41.1730,



# 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

28.5596, 41.1730, 32.0331

### Protanopia

38.0880, 40.7644, 28.0512

### Deuteranopia

41.3069, 40.3933, 33.2233



## Tritanopia

33.8942, 41.1544, 58.3817

# Trichromacy



## Original Color

28.5596, 41.1730, 32.0331



## Protanomaly

33.5012, 40.3907, 29.3230



## Deuteranomaly

34.9547, 39.6129, 32.5918



## Tritanomaly

31.7410, 41.2120, 47.3561

# Monochromacy



## Original Color

28.5596, 41.1730, 32.0331



## Achromatopsia

32.4990, 34.1914, 37.2345



## Achromatomaly

30.3367, 36.0462, 35.0645

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.5596, 41.1730, 32.0331 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(102, 189, 142)` looks like.

```
.text, #text, p{  
    color:rgb(102, 189, 142)  
}
```

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(102, 189, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 189, 142) }
```

## Border

The CSS property to change the border of an element to XYZ 28.5596, 41.1730, 32.0331 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(102, 189, 142) }
```



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

```
.border{ border-color:rgb(102, 189, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 189, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(102, 189, 142); -webkit-box-shadow:4px 4px 4px 4px rgb(102, 189, 142); box-shadow:4px 4px 4px 4px rgb(102, 189, 142) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.5596, 41.1730, 32.0331 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 189, 142) }
```

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

```
.background{ background-color: rgb(102,  
189, 142) }
```

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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