

# Converting Colors

XYZ(30.9884, 47.8666, 36.6690)

Have a look what the booklet for  
XYZ(30.9884, 47.8666, 36.6690)  
contains.

<b>XYZ(30.9036, 47.7037, 36.4331)</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(30.9036, 47.7037,  
36.4331)**

# Conversions

## Conversions Part 1

Format	Color
Hex	53CD96
RGB	83, 205, 150
RGB Percent	33%, 80%, 59%
CMY	0.6745, 0.1961, 0.4118
CMYK	0.60, 0.00, 0.27, 0.20
HSL	153°, 55%, 56%
HSV	153°, 60%, 80%
XYZ	30.9036, 47.7037, 36.4331
YIQ	162.2520, -55.0570, -42.9690

# Conversions

## Conversions Part 2

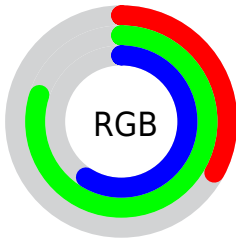
Format	Color
<a href="#">RYB</a>	<a href="#">83, 162, 205</a>
Decimal	<a href="#">5492118</a>
CIELab	<a href="#">74.64, -46.86, 17.42</a>
CIELCh	<a href="#">75, 49.997, 159.605</a>
Yxy	<a href="#">47.7037, 0.2686, 0.4147</a>
Android (android.graphics.Color)	<a href="#">4283682198 (0xFF53CD96)</a>
YUV	<a href="#">162.2520, -6.0402, -69.5040</a>
Hunter-Lab	<a href="#">69.0679, -41.0010, 17.0722</a>

# Details

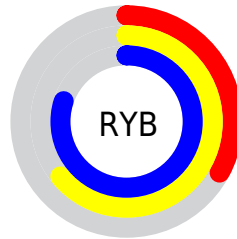
The XYZ color **30.9036, 47.7037, 36.4331** is a dark color, and the websafe version is hex **33CC99**. The color can be described as middle muted spring green. A complement of this color would be **32.8591, 21.0016, 26.3682**, and the grayscale version is **34.5078, 36.3049, 39.5360**.

A 20% lighter version of the original color is **57.8144, 81.6304, 69.8358**, and **13.1585, 22.7135, 15.4950** is the 20% darker color. If you saturate the color by 10%, you get **28.6403, 46.6208, 32.5949**, and if you desaturate by 10%, it is **33.7628, 49.0895, 40.6078**.

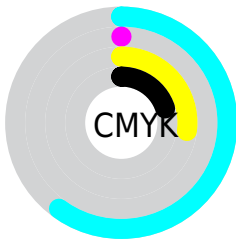
# Distribution



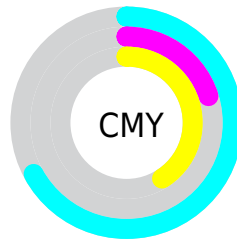
- Red (33%)
- Green (80%)
- Blue (59%)



- Red (33%)
- Yellow (64%)
- Blue (80%)



- Cyan (60%)
- Magenta (0%)
- Yellow (27%)
- Black (20%)




- Cyan (67%)
- Magenta (20%)
- Yellow (41%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.9036, 47.7037, 36.4331 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 30.9036, 47.7037, 36.4331 by changing the saturation by 10% instead.





 30.9036, 47.7037,  
36.4331


 30.9036, 47.7037,  
36.4331


297.9288,  
377.6165, 345.9441


 20.6769, 33.5923,  
24.4765


 60.4651, 86.7631,  
70.8766


 12.9992, 22.5806,  
15.4720


 80.5307, 112.4799,  
94.2006

 7.5050, 14.2841,  
9.0010


 104.6066,  
142.8339, 122.1508

 3.8290, 8.3185,  
4.6450

 133.0582,  
178.2095, 155.1458

 1.6058, 4.2994,  
1.9855

166.2509,  
218.9912, 193.6040

 0.3962, 1.8424,  
0.5463

204.5500,

 0.0000, 0.5134,

265.5633, 237.9442

0.0000

248.3208,  
318.3103, 288.5847

■ 0.0000, 0.0000,  
0.0000

■ 30.9036, 47.7037,  
36.4331

■ 30.9036, 47.7037,  
36.4331

■ 28.6403, 46.6208,  
32.5949

■ 33.7628, 49.0895,  
40.6078

■ 26.9190, 45.8095,  
29.0804

■ 37.2581, 50.7951,  
45.1244

■ 25.6821, 45.2414,  
25.8808

■ 41.4306, 52.8426,  
49.9927

■ 24.8273, 44.8639,  
22.9836

■ 46.3166, 55.2508,  
55.2205

■ 24.7894, 44.8473,  
22.8495

■ 51.9497, 58.0368,  
60.8158

■ 58.3615, 61.2167,  
66.7860

■ 65.5817, 64.8057,  
73.1383

■ 73.6382, 68.8181,  
79.8799

■ 77.8062, 70.8180,  
86.7952

# Harmonies

## Analogous

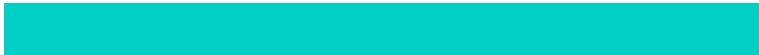
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



35.1245, 47.7037, 22.2213



30.9036, 47.7037, 36.4331



30.2521, 47.7037, 60.7119

# Triad

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



30.9036, 47.7037, 36.4331



48.3081, 47.7037, 118.2322



60.1184, 47.7037, 26.2011

# Complementary

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



30.9036, 47.7037, 36.4331



32.8591, 21.0016, 26.3682

# 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.



64.7611, 47.7037, 44.0587



30.9036, 47.7037, 36.4331



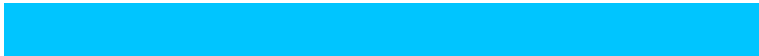
57.3681, 47.7037, 100.5968

# Square

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



30.9036, 47.7037, 36.4331



39.5413, 47.7037, 114.0835



63.6926, 47.7037, 71.3233



51.6817, 47.7037, 17.8249

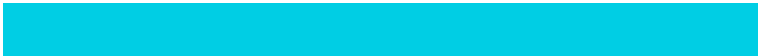


# Rectangle

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



30.9036, 47.7037, 36.4331



31.8276, 47.7037, 80.6680



63.6926, 47.7037, 71.3233



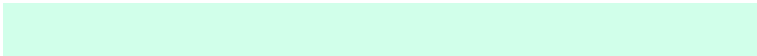
62.2223, 47.7037, 31.0000

# Sweetspot

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



30.9049, 47.7056, 36.4342



76.9782, 91.0481, 91.5901



34.1981, 49.8589, 16.0054



15.9351, 19.2207, 19.0458



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.



30.9049, 47.7056, 36.4342



46.1596, 76.0056, 51.9645



35.4594, 47.9910, 65.1543



11.3215, 12.6383, 13.2504



15.4802, 27.9374, 14.4797



0.8365, 1.4564, 0.9468



# Inverse Universe

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



32.8591, 21.0016, 26.3682



49.6501, 28.5367, 34.1544



30.1531, 20.4318, 10.5386



11.4191, 11.2964, 12.7413



16.9341, 8.5842, 7.3718



0.9117, 0.4581, 0.5808



# Previews

## White Background



This preview shows how the XYZ color 30.9036, 47.7037, 36.4331 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 30.9036, 47.7037, 36.4331 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

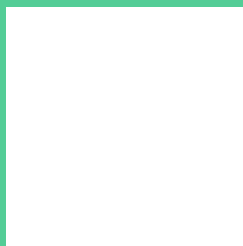
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 30.9036, 47.7037, 36.4331**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.9036, 47.7037, 36.4331.



This preview shows how white text looks on a background with the XYZ color 30.9036, 47.7037,



# 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

30.9036, 47.7037, 36.4331

### Protanopia

43.8938, 46.9221, 31.1695

### Deuteranopia

47.6252, 46.6156, 37.9401



## Tritanopia

37.5700, 47.6202, 70.1623

# Trichromacy



## Original Color

30.9036, 47.7037, 36.4331



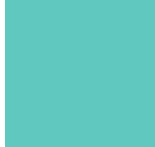
## Protanomaly

36.6978, 45.6801, 32.8696



## Deuteranomaly

38.4959, 45.2374, 37.2746



## Tritanomaly

34.7724, 47.5131, 56.0534

# Monochromacy



## Original Color

30.9036, 47.7037, 36.4331



## Achromatopsia

34.3422, 36.1307, 39.3463



## Achromatomaly

31.7648, 39.2960, 38.2584

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.9036, 47.7037, 36.4331 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(83, 205, 150)` looks like.

```
.text, #text, p{  
    color:rgb(83, 205, 150)  
}
```

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(83, 205, 150) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 205, 150) }
```

## Border

The CSS property to change the border of an element to XYZ 30.9036, 47.7037, 36.4331 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(83, 205, 150) }
```



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

```
.border{ border-color:rgb(83, 205, 150) }
```

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

Here you see how a box with a 4 pixel `rgb(83, 205, 150)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 205, 150); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 205, 150);  
box-shadow:4px 4px 4px 4px rgb(83, 205,  
150) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.9036, 47.7037, 36.4331 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 205, 150) }
```

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

```
.background{ background-color: rgb(83, 205,  
150) }
```

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