

# Converting Colors

XYZ(35.6213, 51.3783, 29.8663)

Have a look what the booklet for  
XYZ(35.6213, 51.3783, 29.8663)  
contains.

<b>XYZ(35.6228, 51.3669, 29.8671)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(35.6228, 51.3669,  
29.8671)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80D084
RGB	128, 208, 132
RGB Percent	50%, 82%, 52%
CMY	0.4980, 0.1843, 0.4823
CMYK	0.38, 0.00, 0.37, 0.18
HSL	123°, 46%, 66%
HSV	123°, 38%, 82%
XYZ	35.6228, 51.3669, 29.8671
YIQ	175.4160, -23.2840, -40.5960

# Conversions

## Conversions Part 2

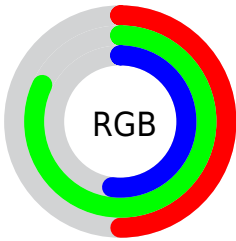
Format	Color
<a href="#">RYB</a>	<a href="#">128, 204, 208</a>
Decimal	<a href="#">8441988</a>
CIELab	<a href="#">76.90, -39.94, 30.22</a>
CIELCh	<a href="#">77, 50.086, 142.883</a>
Yxy	<a href="#">51.3669, 0.3048, 0.4396</a>
Android (android.graphics.Color)	<a href="#">4286632068 (0xFF80D084)</a>
YUV	<a href="#">175.4160, -21.4041, -41.5838</a>
Hunter-Lab	<a href="#">71.6707, -36.7031, 25.4618</a>

# Details

The XYZ color **35.6228, 51.3669, 29.8671** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **44.6323, 33.2088, 61.1860**, and the grayscale version is **41.0805, 43.2198, 47.0664**.

A 20% lighter version of the original color is **64.3901, 85.2555, 59.5166**, and **15.7005, 24.8324, 11.7502** is the 20% darker color. If you saturate the color by 10%, you get **31.5826, 49.4273, 23.2759**, and if you desaturate by 10%, it is **40.5631, 53.7439, 37.8395**.

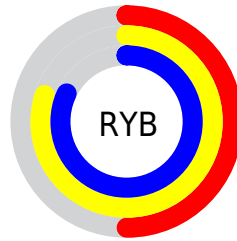
# Distribution



Red (50%)

Green (82%)

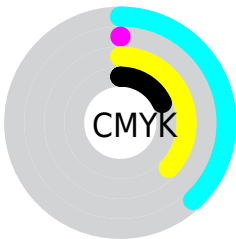
Blue (52%)



Red (50%)

Yellow (80%)

Blue (82%)

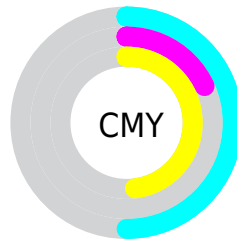


Cyan (38%)

Magenta (0%)

Yellow (37%)

Black (18%)



Cyan (50%)

Magenta (18%)

Yellow (48%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.6228, 51.3669, 29.8671 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 35.6228, 51.3669, 29.8671 by changing the saturation by 10% instead.



■ 35.6228, 51.3669,  
29.8671

■ 35.6228, 51.3669,  
29.8671

318.7689,  
391.9876, 315.4725

■ 24.3118, 36.5007,  
19.4865

■ 67.7772, 92.1969,  
60.5105

■ 15.6910, 24.8211,  
11.8420

■ 89.3512, 118.9294,  
81.6103

■ 9.3953, 15.9438,  
6.5150

■ 115.0770,  
150.3862, 107.1204

■ 5.0590, 9.4844,  
3.0869

145.3198,  
186.9517, 137.4592

■ 2.3171, 5.0585,  
1.1392

180.4450,  
229.0101, 173.0453

■ 0.8034, 2.2816,  
0.0000

220.8181,

■ 0.0000, 0.7640,

276.9460, 214.2971

0.0000

266.8043,  
331.1437, 261.6334

■ 0.0000, 0.0000,  
0.0000

■ 35.6228, 51.3669,  
29.8671

■ 35.6228, 51.3669,  
29.8671

■ 31.5826, 49.4273,  
23.2759

■ 40.5631, 53.7439,  
37.8395

■ 28.3845, 47.8924,  
17.9842

■ 46.4490, 56.5757,  
47.2617

■ 25.9702, 46.7356,  
13.9072


■ 53.3277, 59.8868,  
58.2020


■ 24.2720, 45.9238,  
10.9485


■ 61.2421, 63.6979,  
70.7230


■ 23.2109, 45.4189,  
8.9971

■ 70.2324, 68.0284,  
84.8843

 22.6725, 45.1647,  
7.9186

 80.3370, 72.8970,  
100.7419

 22.6139, 45.1366,  
7.8192

 81.8469, 73.5938,  
104.4990

# Harmonies

## Analogous

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



42.0398, 51.3669, 20.1800



35.6228, 51.3669, 29.8671



32.8067, 51.3669, 49.6777

# Triad

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



35.6228, 51.3669, 29.8671



46.5878, 51.3669, 125.8183



67.7207, 51.3669, 37.9082

# Complementary

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



35.6228, 51.3669, 29.8671



44.6323, 33.2088, 61.1860

# 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.



69.3513, 51.3669, 62.6856



35.6228, 51.3669, 29.8671



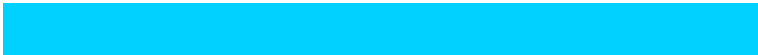
56.2985, 51.3669, 119.5312

# Square

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



35.6228, 51.3669, 29.8671



38.5809, 51.3669, 109.0665



64.9366, 51.3669, 93.9413



60.7333, 51.3669, 23.6572

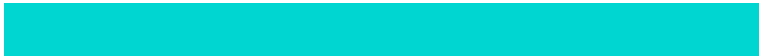


# Rectangle

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



35.6228, 51.3669, 29.8671



33.0528, 51.3669, 68.4623



64.9366, 51.3669, 93.9413



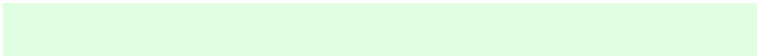
68.9477, 51.3669, 45.0285

# Sweetspot

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



35.6241, 51.3691, 29.8682



80.3425, 92.9185, 85.6021



51.3562, 59.5103, 29.2022



16.8852, 19.7385, 17.8272



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

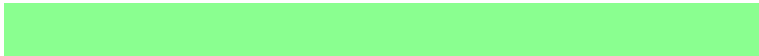


# Same Dimension

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



35.6241, 51.3691, 29.8682



51.1927, 78.8981, 38.7431



38.9057, 52.6817, 47.1491



11.6799, 13.2157, 12.6709



14.1042, 28.1346, 4.9289



0.7972, 1.5765, 0.3209



# Inverse Universe

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



44.6323, 33.2088, 61.1860



67.4051, 46.1988, 95.0959



40.4339, 31.5295, 39.0777



12.2842, 11.9984, 14.7724



22.5472, 10.8917, 34.1176



1.2687, 0.6122, 1.9499



# Previews

## White Background



This preview shows how the XYZ color 35.6228, 51.3669, 29.8671 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 35.6228, 51.3669, 29.8671 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 35.6228, 51.3669, 29.8671**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.6228, 51.3669, 29.8671.



This preview shows how white text looks on a background with the XYZ color 35.6228, 51.3669,



# 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

35.6228, 51.3669, 29.8671

### Protanopia

47.0125, 50.8296, 26.4020

### Deuteranopia

51.8518, 50.7300, 31.1037



## Tritanopia

43.8333, 51.1725, 71.1853

# Trichromacy



## Original Color

35.6228, 51.3669, 29.8671



## Protanomaly

41.7022, 50.3593, 27.6010



## Deuteranomaly

44.0610, 49.8580, 30.5938



## Tritanomaly

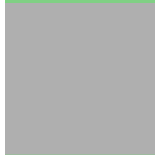
40.2535, 51.1050, 53.0901

# Monochromacy



## Original Color

35.6228, 51.3669, 29.8671



## Achromatopsia

40.7470, 42.8690, 46.6844



## Achromatomaly

38.1289, 45.3130, 39.5376

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.6228, 51.3669, 29.8671 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(128, 208, 132)` looks like.

```
.text, #text, p{  
    color:rgb(128, 208, 132)  
}
```

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(128, 208, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 208, 132) }
```

## Border

The CSS property to change the border of an element to XYZ 35.6228, 51.3669, 29.8671 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(128, 208, 132) }
```



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

```
.border{ border-color:rgb(128, 208, 132) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 208, 132)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 208, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 208, 132);  
box-shadow:4px 4px 4px 4px rgb(128, 208,  
132) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.6228, 51.3669, 29.8671 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 208, 132) }
```

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

```
.background{ background-color: rgb(128,  
208, 132) }
```

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