

# Converting Colors

XYZ(29.1731, 35.7212, 15.5157)

Have a look what the booklet for  
XYZ(29.1731, 35.7212, 15.5157)  
contains.

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# Color

**XYZ(29.0713, 35.5503,  
15.4549)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99A85C
RGB	153, 168, 92
RGB Percent	60%, 66%, 36%
CMY	0.4000, 0.3412, 0.6392
CMYK	0.09, 0.00, 0.45, 0.34
HSL	72°, 30%, 51%
HSV	72°, 45%, 66%
XYZ	29.0713, 35.5503, 15.4549
YIQ	154.8510, 15.4560, -26.8160

# Conversions

## Conversions Part 2

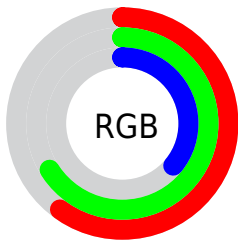
<b>Format</b>	<b>Color</b>
<b>RYB</b>	92, 168, 107
Decimal	10070108
CIELab	66.17, -17.32, 37.35
CIELCh	66, 41.173, 114.875
Yxy	35.5503, 0.3630, 0.4440
Android (android.graphics.Color)	4288260188 (0xFF99A85C)
YUV	154.8510, -30.9855, -1.6233
Hunter-Lab	59.6241, -17.3097, 26.3685

# Details

The XYZ color **29.0713, 35.5503, 15.4549** is a dark color, and the websafe version is hex **999966**. A complement of this color would be **16.9598, 13.6082, 38.7806**, and the grayscale version is **31.2185, 32.8443, 35.7674**.

A 20% lighter version of the original color is **57.7162, 68.3443, 36.5354**, and **11.9370, 15.3745, 4.6239** is the 20% darker color. If you saturate the color by 10%, you get **27.7998, 34.9716, 11.9779**, and if you desaturate by 10%, it is **30.5248, 36.2063, 19.7920**.

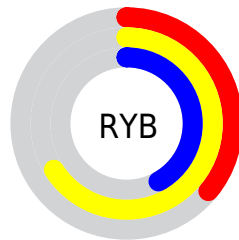
# Distribution



Red (60%)

Green (66%)

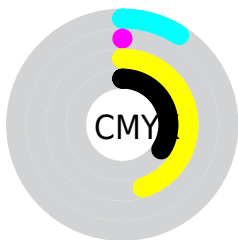
Blue (36%)



Red (36%)

Yellow (66%)

Blue (42%)

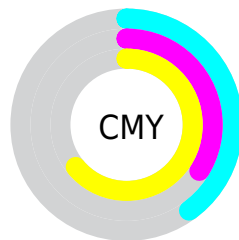


Cyan (9%)

Magenta (0%)

Yellow (45%)

Black (34%)



Cyan (40%)

Magenta (34%)

Yellow (64%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.0713, 35.5503, 15.4549 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 29.0713, 35.5503, 15.4549 by changing the saturation by 10% instead.



■ 29.0713, 35.5503,  
15.4549

■ 29.0713, 35.5503,  
15.4549

289.5394,  
326.9907, 237.8382

■ 19.2793, 24.0871,  
8.9891

■ 57.5871, 68.3374,  
36.4028

■ 11.9775, 15.3982,  
4.6374

■ 77.0417, 90.4301,  
51.7219

■ 6.8004, 9.0994,  
1.9811

■ 100.4478,  
116.8347, 70.8293

■ 3.3828, 4.8060,  
0.5436

■ 128.1708,  
147.9356, 94.1434

■ 1.3593, 2.1339,  
0.0000

160.5762,  
184.1173, 122.0829

■ 0.2269, 0.6836,  
0.0000

198.0291,

■ 0.0000, 0.0000,

225.7641, 155.0661

0.0000

240.8951,  
273.2605, 193.5117

■ 29.0713, 35.5503,  
15.4549

■ 29.0713, 35.5503,  
15.4549

■ 27.7998, 34.9716,  
11.9779

■ 30.5248, 36.2063,  
19.7920

■ 26.6967, 34.4611,  
9.3013

■ 32.1678, 36.9388,  
25.0391

■ 25.7506, 34.0153,  
7.3616


■ 34.0103, 37.7532,  
31.2449


■ 24.9471, 33.6285,  
6.0846


■ 36.0610, 38.6530,  
38.4539


■ 24.2684, 33.2936,  
5.3770


■ 38.3280, 39.6413,  
46.7080

 23.9689, 33.1442,  
5.1342

 40.8188, 40.7213,  
56.0466

 43.5407, 41.8957,  
66.5070

 46.5006, 43.1675,  
78.1250

 49.7051, 44.5393,  
90.9344

# Harmonies

## Analogous

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



34.8530, 35.5503, 13.8867



29.0713, 35.5503, 15.4549



25.0392, 35.5503, 22.3575

# Triad

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



29.0713, 35.5503, 15.4549



27.4532, 35.5503, 73.3898



46.9369, 35.5503, 41.8014

# Complementary

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



29.0713, 35.5503, 15.4549



16.9598, 13.6082, 38.7806

# 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.



44.3724, 35.5503, 61.5518



29.0713, 35.5503, 15.4549



32.7479, 35.5503, 82.9871

# Square

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



29.0713, 35.5503, 15.4549



24.1871, 35.5503, 54.7096



38.9924, 35.5503, 78.1048



45.6466, 35.5503, 26.1774



# Rectangle

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



29.0713, 35.5503, 15.4549



23.6431, 35.5503, 30.5539



38.9924, 35.5503, 78.1048



46.4888, 35.5503, 48.1978

# Sweetspot

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



29.0722, 35.5519, 15.4557



62.0615, 68.6583, 57.8970



23.2286, 19.3929, 12.6446



13.3673, 14.8943, 12.0700



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656



# Same Dimension

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



29.0722, 35.5519, 15.4557



50.4973, 63.4821, 21.8724



23.1470, 32.4974, 15.1784



7.9996, 8.6979, 8.0465



18.1411, 25.0493, 3.8789



0.4774, 0.6280, 0.0961



# Inverse Universe

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



16.9598, 13.6082, 38.7806



25.8169, 18.7182, 69.4774



22.3862, 16.4056, 39.0346



7.2650, 7.3692, 9.4578



5.8497, 2.3991, 28.1302



0.1803, 0.0779, 0.6862



# Previews

## White Background



This preview shows how the XYZ color 29.0713, 35.5503, 15.4549 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 29.0713, 35.5503, 15.4549 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 29.0713, 35.5503, 15.4549**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.0713, 35.5503, 15.4549.



This preview shows how white text looks on a background with the XYZ color 29.0713, 35.5503,



# 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

29.0713, 35.5503, 15.4549

### Protanopia

32.6795, 35.5581, 14.5922

### Deuteranopia

35.9625, 35.2108, 15.7274



## Tritanopia

34.8531, 35.5231, 43.5478

# Trichromacy



## Original Color

29.0713, 35.5503, 15.4549

## Protanomaly

31.2694, 35.6139, 14.8990

## Deuteranomaly

33.0696, 34.9652, 15.5957

## Tritanomaly

32.1009, 35.1646, 30.6867

# Monochromacy



## Original Color

29.0713, 35.5503, 15.4549

## Achromatopsia

31.1553, 32.7778, 35.6950

## Achromatomaly

30.0621, 33.6776, 26.7458

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.0713, 35.5503, 15.4549 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(153, 168, 92)` looks like.

```
.text, #text, p{  
    color:rgb(153, 168, 92)  
}
```

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(153, 168, 92) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 168, 92) }
```

## Border

The CSS property to change the border of an element to XYZ 29.0713, 35.5503, 15.4549 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(153, 168, 92) }
```



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

```
.border{ border-color:rgb(153, 168, 92) }
```

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

Here you see how a box with a 4 pixel rgb(153, 168, 92) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 168, 92); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 168, 92);  
box-shadow:4px 4px 4px 4px rgb(153, 168,  
92) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.0713, 35.5503, 15.4549 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 168, 92) }
```

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

```
.background{ background-color: rgb(153,  
168, 92) }
```

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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