

# Converting Colors

XYZ(16.8285, 23.5243, 11.3539)

Have a look what the booklet for  
XYZ(16.8285, 23.5243, 11.3539)  
contains.

<b>XYZ(16.8661, 23.5542, 11.4421)</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(16.8661, 23.5542,  
11.4421)**

# Conversions

## Conversions Part 1

Format	Color
Hex	649151
RGB	100, 145, 81
RGB Percent	39%, 57%, 32%
CMY	0.6078, 0.4314, 0.6823
CMYK	0.31, 0.00, 0.44, 0.43
HSL	102°, 28%, 44%
HSV	102°, 44%, 57%
XYZ	16.8661, 23.5542, 11.4421
YIQ	124.2490, -6.2760, -29.4440

# Conversions

## Conversions Part 2

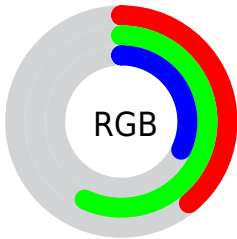
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	81, 145, 126
Decimal	6590801
CIE <sub>Lab</sub>	55.64, -27.82, 29.14
CIE <sub>LCh</sub>	56, 40.281, 133.673
Y <sub>xy</sub>	23.5542, 0.3252, 0.4542
Android (android.graphics.Color)	4284780881 (0xFF649151)
YUV	124.2490, -21.3218, -21.2664
Hunter-Lab	48.5327, -22.8998, 19.9946

# Details

The XYZ color **16.8661, 23.5542, 11.4421** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **16.6586, 12.3656, 28.2982**, and the grayscale version is **19.3122, 20.3180, 22.1262**.

A 20% lighter version of the original color is **37.6570, 49.2578, 28.9957**, and **5.6068, 8.7990, 2.9162** is the 20% darker color. If you saturate the color by 10%, you get **15.3215, 22.8149, 8.8283**, and if you desaturate by 10%, it is **18.6692, 24.4148, 14.6751**.

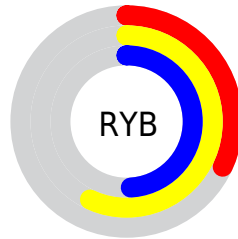
# Distribution



Red (39%)

Green (57%)

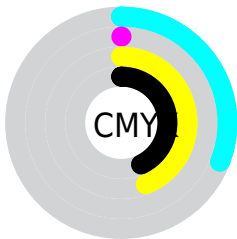
Blue (32%)



Red (32%)

Yellow (57%)

Blue (49%)

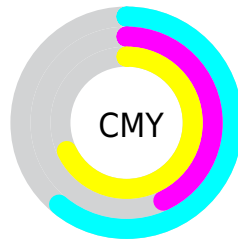


Cyan (31%)

Magenta (0%)

Yellow (44%)

Black (43%)



Cyan (61%)

Magenta (43%)

Yellow (68%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.8661, 23.5542, 11.4421 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 16.8661, 23.5542, 11.4421 by changing the saturation by 10% instead.



■ 16.8661, 23.5542,  
11.4421

■ 16.8661, 23.5542,  
11.4421

227.5709,  
270.5588, 211.5212

■ 10.2338, 15.0033,  
6.2471

■ 37.6408, 49.3017,  
29.1239

■ 5.6177, 8.8217,  
2.9247

■ 52.5140, 67.2671,  
42.4478

■ 2.6525, 4.6250,  
1.0563

■ 70.8648, 89.1394,  
59.3184

■ 0.9728, 2.0290,  
0.0000

■ 93.0586, 115.3031,  
80.1543

■ 0.0000, 0.6242,  
0.0000

■ 119.4607,  
146.1424, 105.3739

■ 0.0000, 0.0000,  
0.0000

150.4366,

182.0419, 135.3959

186.3515,  
223.3859, 170.6388

■ 16.8661, 23.5542,  
11.4421

■ 16.8661, 23.5542,  
11.4421

■ 15.3215, 22.8149,  
8.8283

■ 18.6692, 24.4148,  
14.6751

■ 14.0210, 22.1882,  
6.7927

■ 20.7407, 25.3988,  
18.5619

■ 12.9513, 21.6688,  
5.2917


■ 23.0923, 26.5123,  
23.1363


■ 12.0970, 21.2501,  
4.2747


■ 25.7342, 27.7598,  
28.4292


■ 11.4400, 20.9239,  
3.6799


■ 28.6762, 29.1458,  
34.4698

 11.1239, 20.7663,  
3.4220

 31.9277, 30.6745,  
41.2857

 35.4975, 32.3499,  
48.9029

 39.3941, 34.1759,  
57.3464

 43.6259, 36.1561,  
66.6399

# Harmonies

## Analogous

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



20.3798, 23.5542, 8.1755



16.8661, 23.5542, 11.4421



14.9882, 23.5542, 19.2196

# Triad

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



16.8661, 23.5542, 11.4421



20.0138, 23.5542, 58.0492



32.0253, 23.5542, 20.1608

# Complementary

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



16.8661, 23.5542, 11.4421



16.6586, 12.3656, 28.2982

# 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.



31.8921, 23.5542, 33.3668



16.8661, 23.5542, 11.4421



24.5231, 23.5542, 58.5693

# Square

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



16.8661, 23.5542, 11.4421



16.6296, 23.5542, 47.1686



28.9990, 23.5542, 48.4130



29.3413, 23.5542, 11.9287



# Rectangle

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



16.8661, 23.5542, 11.4421



14.7330, 23.5542, 27.2878



28.9990, 23.5542, 48.4130



32.3186, 23.5542, 24.0724

# Sweetspot

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



16.8667, 23.5552, 11.4426



41.7422, 47.6613, 42.2015



20.5986, 21.4855, 10.8464



9.0869, 10.5086, 8.9951



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844



# Same Dimension

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



16.8667, 23.5552, 11.4426



27.4456, 40.8602, 15.8231



15.5309, 22.8058, 14.1266



5.4840, 6.1021, 5.7782



9.5646, 17.8233, 2.9361



0.1115, 0.1807, 0.0290



# Inverse Universe

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



16.6586, 12.3656, 28.2982



27.0000, 18.1265, 50.0493



18.7990, 13.5767, 23.5324



5.4725, 5.4318, 6.7888



9.1064, 4.1881, 23.3055



0.1092, 0.0515, 0.2239



# Previews

## White Background



This preview shows how the XYZ color 16.8661, 23.5542, 11.4421 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 16.8661, 23.5542, 11.4421 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 × Fail

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

**XYZ 16.8661, 23.5542, 11.4421**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.8661, 23.5542, 11.4421.



This preview shows how white text looks on a background with the XYZ color 16.8661, 23.5542,



# 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

16.8661, 23.5542, 11.4421

### Protanopia

21.5811, 23.4219, 10.4046

### Deuteranopia

23.7263, 23.3082, 11.8428



## Tritanopia

20.8465, 23.4089, 31.4366

# Trichromacy



## Original Color

16.8661, 23.5542, 11.4421

## Protanomaly

19.3741, 23.1085, 10.6470

## Deuteranomaly

20.6066, 23.0936, 11.7589

## Tritanomaly

19.0796, 23.3372, 22.5677

# Monochromacy



## Original Color

16.8661, 23.5542, 11.4421

## Achromatopsia

19.1579, 20.1556, 21.9495

## Achromatomaly

18.0283, 21.2301, 17.3350

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.8661, 23.5542, 11.4421 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(100, 145, 81)` looks like.

```
.text, #text, p{  
    color:rgb(100, 145, 81)  
}
```

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(100, 145, 81) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 145, 81) }
```

## Border

The CSS property to change the border of an element to XYZ 16.8661, 23.5542, 11.4421 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(100, 145, 81) }
```



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

```
.border{ border-color:rgb(100, 145, 81) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 145, 81)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 145, 81); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 145, 81);  
box-shadow:4px 4px 4px 4px rgb(100, 145,  
81) }
```

# Background

The CSS property to change the background color of an element to XYZ 16.8661, 23.5542, 11.4421 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 145, 81) }
```

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

```
.background{ background-color: rgb(100,  
145, 81) }
```

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