

# Converting Colors

XYZ(13.6007, 20.0162, 11.2345)

Have a look what the booklet for  
XYZ(13.6007, 20.0162, 11.2345)  
contains.

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# Color

**XYZ(13.6489, 20.1356,  
11.3508)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4E8953
RGB	78, 137, 83
RGB Percent	31%, 54%, 33%
CMY	0.6941, 0.4627, 0.6745
CMYK	0.43, 0.00, 0.39, 0.46
HSL	125°, 27%, 42%
HSV	125°, 43%, 54%
XYZ	13.6489, 20.1356, 11.3508
YIQ	113.2030, -17.8300, -29.3020

# Conversions

## Conversions Part 2

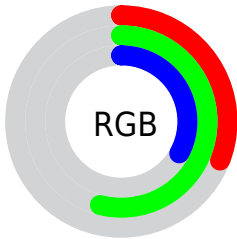
<b>Format</b>	<b>Color</b>
<b>RYB</b>	78, 132, 137
Decimal	5146963
CIELab	51.99, -31.23, 23.10
CIELCh	52, 38.842, 143.514
Yxy	20.1356, 0.3024, 0.4461
Android (android.graphics.Color)	4283337043 (0xFF4E8953)
YUV	113.2030, -14.8901, -30.8730
Hunter-Lab	44.8727, -24.2330, 16.4132

# Details

The XYZ color **13.6489, 20.1356, 11.3508** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **17.2064, 12.4335, 23.3236**, and the grayscale version is **15.8034, 16.6264, 18.1062**.

A 20% lighter version of the original color is **32.0704, 43.7009, 28.9351**, and **4.0877, 7.0088, 2.8876** is the 20% darker color. If you saturate the color by 10%, you get **12.2002, 19.4403, 8.9805**, and if you desaturate by 10%, it is **15.4201, 20.9882, 14.1942**.

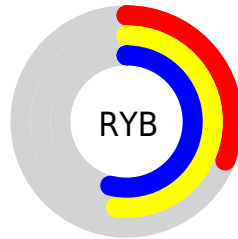
# Distribution



Red (31%)

Green (54%)

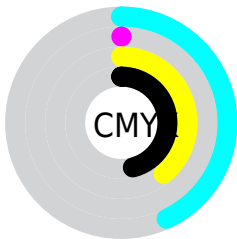
Blue (33%)



Red (31%)

Yellow (52%)

Blue (54%)

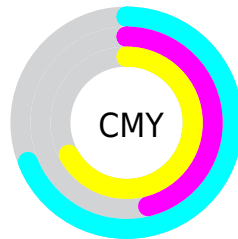


Cyan (43%)

Magenta (0%)

Yellow (39%)

Black (46%)



Cyan (69%)

Magenta (46%)

Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 13.6489, 20.1356, 11.3508 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 13.6489, 20.1356, 11.3508 by changing the saturation by 10% instead.



■ 13.6489, 20.1356,  
11.3508

■ 13.6489, 20.1356,  
11.3508

208.5902,  
252.6483, 210.8818

■ 7.9569, 12.4937,  
6.1862

■ 32.0562, 43.6444,  
28.9536

■ 4.1190, 7.0808,  
2.8880

■ 45.5023, 60.2801,  
42.2288

■ 1.7697, 3.5127,  
1.0377

■ 62.2638, 80.6824,  
59.0446

■ 0.4993, 1.4049,  
0.0000

■ 82.7061, 105.2358,  
79.8196

■ 0.0000, 0.2203,  
0.0000

■ 107.1946,  
134.3247, 104.9722

■ 0.0000, 0.0000,  
0.0000

136.0945,

168.3335, 134.9211

169.7712,  
207.6465, 170.0848

■ 13.6489, 20.1356,  
11.3508

■ 13.6489, 20.1356,  
11.3508

■ 12.2002, 19.4403,  
8.9805

■ 15.4201, 20.9882,  
14.1942

■ 11.0530, 18.8903,  
7.0564

■ 17.5300, 22.0042,  
17.5329

■ 10.1865, 18.4761,  
5.5509


■ 19.9956, 23.1924,  
21.3895


■ 9.5764, 18.1856,  
4.4329


■ 22.8322, 24.5604,  
25.7848


■ 9.1940, 18.0051,  
3.6670


■ 26.0544, 26.1152,  
30.7382

 9.0101, 17.9178,  
3.3191

 29.6757, 27.8634,  
36.2685

 33.7092, 29.8114,  
42.3933

 38.1675, 31.9652,  
49.1297

 43.0622, 34.3306,  
56.4939

# Harmonies

## Analogous

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



16.2600, 20.1356, 7.3972



13.6489, 20.1356, 11.3508



12.5293, 20.1356, 19.5534

# Triad

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



13.6489, 20.1356, 11.3508



18.2915, 20.1356, 51.4897



26.9985, 20.1356, 14.3281

# Complementary

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



13.6489, 20.1356, 11.3508



17.2064, 12.4335, 23.3236

# 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.



27.7387, 20.1356, 24.4794



13.6489, 20.1356, 11.3508



22.3377, 20.1356, 48.5948

# Square

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



13.6489, 20.1356, 11.3508



14.9606, 20.1356, 44.5287



25.9316, 20.1356, 37.6043



24.0292, 20.1356, 8.6556



# Rectangle

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



13.6489, 20.1356, 11.3508



12.6518, 20.1356, 27.4215



25.9316, 20.1356, 37.6043



27.5317, 20.1356, 17.2157

# Sweetspot

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



13.6494, 20.1364, 11.3512



35.7025, 41.4812, 38.1405



19.8504, 23.3547, 10.6695



7.8033, 9.2054, 8.2359



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424



# Same Dimension

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



13.6494, 20.1364, 11.3512



21.8285, 34.8035, 16.0507



15.0360, 20.6911, 18.6530



4.9880, 5.6147, 5.4576



8.3947, 16.6905, 3.1030



0.0577, 0.1117, 0.0309



# Inverse Universe

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



17.2064, 12.4335, 23.3236



29.0931, 19.0551, 40.4895



15.4688, 11.7384, 14.1735



5.2159, 5.1218, 6.2253



13.0832, 6.3434, 18.7403



0.0894, 0.0431, 0.1377



# Previews

## White Background



This preview shows how the XYZ color 13.6489, 20.1356, 11.3508 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 13.6489, 20.1356, 11.3508 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 13.6489, 20.1356, 11.3508**

## **Background**



This preview shows how black text looks on a background with the XYZ color 13.6489, 20.1356, 11.3508.



This preview shows how white text looks on a background with the XYZ color 13.6489, 20.1356,



# 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

13.6489, 20.1356, 11.3508

### Protanopia

18.2896, 19.7843, 10.0625

### Deuteranopia

20.2314, 19.8480, 11.7816



## **Tritanopia**

17.0068, 20.0620, 28.1753

# Trichromacy



## Original Color

13.6489, 20.1356, 11.3508

## Protanomaly

16.1066, 19.5949, 10.5227

## Deuteranomaly

17.0394, 19.4767, 11.6654

## Tritanomaly

15.6154, 20.1096, 20.8278

# Monochromacy



## Original Color

13.6489, 20.1356, 11.3508

## Achromatopsia

15.6958, 16.5132, 17.9829

## Achromatomaly

14.6133, 17.5877, 15.1949

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 13.6489, 20.1356, 11.3508 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(78, 137, 83)` looks like.

```
.text, #text, p{  
    color:rgb(78, 137, 83)  
}
```

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(78, 137, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 137, 83) }
```

## Border

The CSS property to change the border of an element to XYZ 13.6489, 20.1356, 11.3508 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(78, 137, 83) }
```



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

```
.border{ border-color:rgb(78, 137, 83) }
```

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

Here you see how a box with a 4 pixel `rgb(78, 137, 83)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 137, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 137, 83);  
box-shadow:4px 4px 4px 4px rgb(78, 137,  
83) }
```

# Background

The CSS property to change the background color of an element to XYZ 13.6489, 20.1356, 11.3508 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 137, 83) }
```

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

```
.background{ background-color: rgb(78, 137,  
83) }
```

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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