

# Converting Colors

XYZ(23.8283, 37.9505, 16.2614)

Have a look what the booklet for  
XYZ(23.8283, 37.9505, 16.2614)  
contains.

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# Color

**XYZ(23.6944, 37.7459,  
16.1621)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5CB95C
RGB	92, 185, 92
RGB Percent	36%, 73%, 36%
CMY	0.6392, 0.2745, 0.6392
CMYK	0.50, 0.00, 0.50, 0.27
HSL	120°, 40%, 54%
HSV	120°, 50%, 73%
XYZ	23.6944, 37.7459, 16.1621
YIQ	146.5910, -25.5750, -48.6390

# Conversions

## Conversions Part 2

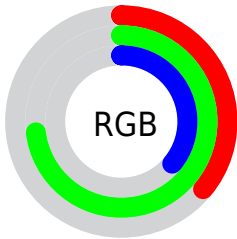
<b>Format</b>	<b>Color</b>
<b>RYB</b>	92, 185, 185
Decimal	6076764
CIELab	67.83, -46.67, 38.64
CIELCh	68, 60.590, 140.372
Yxy	37.7459, 0.3053, 0.4864
Android (android.graphics.Color)	4284266844 (0xFF5CB95C)
YUV	146.5910, -26.9134, -47.8763
Hunter-Lab	61.4377, -38.6747, 27.4093

# Details

The XYZ color **23.6944, 37.7459, 16.1621** is a dark color, and the websafe version is hex **66CC66**. A complement of this color would be **32.5929, 21.4721, 48.3268**, and the grayscale version is **27.6802, 29.1217, 31.7136**.

A 20% lighter version of the original color is **48.9989, 71.8138, 37.6645**, and **9.0696, 16.6758, 4.9312** is the 20% darker color. If you saturate the color by 10%, you get **21.3548, 36.6232, 12.3345**, and if you desaturate by 10%, it is **26.6846, 39.1834, 21.0525**.

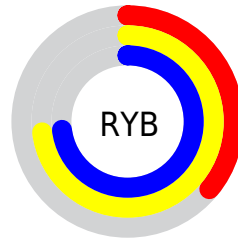
# Distribution



Red (36%)

Green (73%)

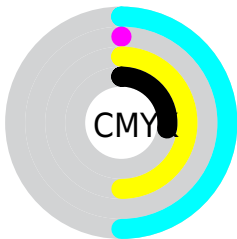
Blue (36%)



Red (36%)

Yellow (73%)

Blue (73%)

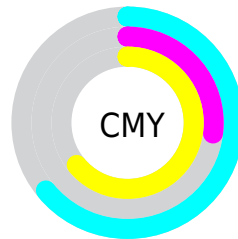


Cyan (50%)

Magenta (0%)

Yellow (50%)

Black (27%)



Cyan (64%)

Magenta (27%)


Yellow (64%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.6944, 37.7459, 16.1621 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 23.6944, 37.7459, 16.1621 by changing the saturation by 10% instead.





 23.6944, 37.7459,  
16.1621


 23.6944, 37.7459,  
16.1621


263.7410,  
336.5287, 242.1746


 15.2306, 25.7855,  
9.4833


 48.9894, 71.7185,  
37.6501


 9.0687, 16.6633,  
4.9567


 66.5512, 94.4995,  
53.2964

 4.8435, 9.9947,  
2.1636


 87.8765, 121.6562,  
72.7690

 2.1896, 5.3954,  
0.6532

 113.3305,  
153.5730, 96.4863

 0.7372, 2.4811,  
0.0000

143.2786,  
190.6342, 124.8670

 0.0000, 0.8672,  
0.0000


178.0861,


 0.0000, 0.0000,


233.2243, 158.3296


0.0000


218.1185,  
281.7277, 197.2926


 23.6944, 37.7459,  
16.1621


 23.6944, 37.7459,  
16.1621


 21.3548, 36.6232,  
12.3345


 26.6846, 39.1834,  
21.0525


 19.6149, 35.7875,  
9.4886


 30.3659, 40.9517,  
27.0739


 18.4210, 35.2139,  
7.5357

 34.7786, 43.0714,  
34.2917

 17.7083, 34.8716,  
6.3699

 39.9594, 45.5599,  
42.7657

 17.3497, 34.6994,  
5.7833

 45.9422, 48.4338,  
52.5516

■ 52.7591, 51.7083,  
63.7019

■ 60.4404, 55.3980,  
76.2661

■ 69.0149, 59.5168,  
90.2911

■ 76.6397, 63.1793,  
102.7632

# Harmonies

## Analogous

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



29.9536, 37.7459, 9.1929



23.6944, 37.7459, 16.1621



20.8629, 37.7459, 33.0463

# Triad

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



23.6944, 37.7459, 16.1621



32.9418, 37.7459, 116.0171



55.5932, 37.7459, 25.6045

# Complementary

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



23.6944, 37.7459, 16.1621



32.5929, 21.4721, 48.3268

# 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.



56.7726, 37.7459, 50.3636



23.6944, 37.7459, 16.1621



42.5325, 37.7459, 111.0858

# Square

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



23.6944, 37.7459, 16.1621



25.5531, 37.7459, 95.1424



51.6485, 37.7459, 83.6628



48.6616, 37.7459, 12.7603



# Rectangle

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



23.6944, 37.7459, 16.1621



20.8913, 37.7459, 51.1240



51.6485, 37.7459, 83.6628



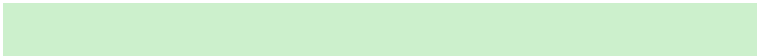
56.7173, 37.7459, 32.4783

# Sweetspot

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



23.6953, 37.7475, 16.1629



66.7724, 79.2925, 68.7525



39.2899, 45.7868, 16.8925



13.9831, 16.8961, 14.1483



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

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



23.6953, 37.7475, 16.1629



37.9890, 65.4663, 21.6719



26.3874, 38.8243, 30.3390



8.8904, 10.0601, 9.5802



11.8131, 23.6262, 3.9378



0.4164, 0.8329, 0.1388



# Inverse Universe

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



32.5929, 21.4721, 48.3268



55.6887, 33.0900, 85.6550



28.4596, 19.8188, 26.5613



9.3810, 9.1628, 11.3536



19.5859, 9.4081, 32.0358



0.6905, 0.3317, 1.1294



# Previews

## White Background



This preview shows how the XYZ color 23.6944, 37.7459, 16.1621 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 23.6944, 37.7459, 16.1621 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 23.6944, 37.7459, 16.1621**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.6944, 37.7459, 16.1621.



This preview shows how white text looks on a background with the XYZ color 23.6944, 37.7459,



# 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

23.6944, 37.7459, 16.1621

### Protanopia

33.9712, 37.0306, 13.9515

### Deuteranopia

37.8623, 37.1569, 16.9808



## Tritanopia

31.0232, 37.4137, 53.1634

# Trichromacy



## Original Color

23.6944, 37.7459, 16.1621



## Protanomaly

28.9084, 36.5992, 14.7732



## Deuteranomaly

30.4272, 35.9555, 16.4028



## Tritanomaly

27.4959, 37.1440, 35.8573

# Monochromacy



## Original Color

23.6944, 37.7459, 16.1621



## Achromatopsia

27.7328, 29.1771, 31.7738



## Achromatomaly

25.3280, 31.5341, 24.8304

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.6944, 37.7459, 16.1621 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(92, 185, 92)` looks like.

```
.text, #text, p{  
    color:rgb(92, 185, 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(92, 185, 92) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(92, 185, 92) }
```

## Border

The CSS property to change the border of an element to XYZ 23.6944, 37.7459, 16.1621 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(92, 185, 92) }
```



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

```
.border{ border-color:rgb(92, 185, 92) }
```

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

Here you see how a box with a 4 pixel `rgb(92, 185, 92)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(92, 185, 92); -webkit-box-  
shadow:4px 4px 4px 4px rgb(92, 185, 92);  
box-shadow:4px 4px 4px 4px rgb(92, 185,  
92) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.6944, 37.7459, 16.1621 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(92, 185, 92) }
```

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

```
.background{ background-color: rgb(92, 185,  
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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