

# Converting Colors

XYZ(23.3865, 14.0580, 65.7010)

Have a look what the booklet for  
XYZ(23.3865, 14.0580, 65.7010)  
contains.

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# Color

**XYZ(23.4852, 14.1302,  
65.7796)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	8048D7
RGB	128, 72, 215
RGB Percent	50%, 28%, 84%
CMY	0.4980, 0.7176, 0.1569
CMYK	0.40, 0.67, 0.00, 0.16
HSL	263°, 64%, 56%
HSV	263°, 67%, 84%
XYZ	23.4852, 14.1302, 65.7796
YIQ	105.0460, -12.5270, 56.3450

# Conversions

## Conversions Part 2

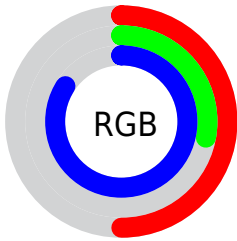
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 72, 215
Decimal	8407255
CIE <sub>Lab</sub>	44.42, 53.33, -64.90
CIE <sub>LCh</sub>	44, 84.000, 309.408
Yxy	14.1302, 0.2271, 0.1367
Android (android.graphics.Color)	4286597335 (0xFF8048D7)
YUV	105.0460, 54.2073, 20.1307
Hunter-Lab	37.5902, 45.7387, -77.4394

# Details

The XYZ color **23.4852, 14.1302, 65.7796** is a dark color, and the websafe version is hex **6633CC**. The color can be described as middle muted purple. A complement of this color would be **39.7678, 56.4397, 14.9290**, and the grayscale version is **13.3006, 13.9933, 15.2387**.

A 20% lighter version of the original color is **45.5074, 32.0744, 98.4002**, and **8.9451, 4.2342, 33.1467** is the 20% darker color. If you saturate the color by 10%, you get **20.4882, 10.8703, 65.3086**, and if you desaturate by 10%, it is **27.2230, 18.4933, 66.4251**.

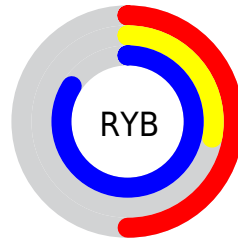
# Distribution



Red (50%)

Green (28%)

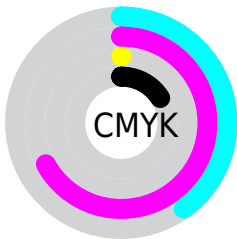
Blue (84%)



Red (50%)

Yellow (28%)

Blue (84%)

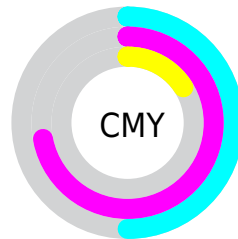


Cyan (40%)

Magenta (67%)

Yellow (0%)

Black (16%)



Cyan (50%)

Magenta (72%)

Yellow (16%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.4852, 14.1302, 65.7796 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 23.4852, 14.1302, 65.7796 by changing the saturation by 10% instead.



■ 23.4852, 14.1302,  
65.7796

■ 23.4852, 14.1302,  
65.7796

262.6964,  
218.0393, 463.9709

■ 15.0748, 8.2113,  
47.6382

■ 48.6496, 33.3199,  
114.7939

■ 8.9586, 4.2304,  
33.1825

■ 66.1344, 47.3594,  
146.5039

■ 4.7711, 1.8033,  
21.9940

■ 87.3747, 64.8746,  
183.5738

■ 2.1469, 0.4892,  
13.6542

■ 112.7359, 86.2499,  
226.4221

■ 0.7145, 0.0000,  
7.7446

■ 142.5833,  
111.8696, 275.4675

■ 0.0000, 0.0000,  
3.8465

177.2823,

■ 0.0000, 0.0000,

142.1181, 331.1284

1.5415

217.1982,  
177.3799, 393.8233

■ 0.0000, 0.0000,  
0.2486

■ 0.0000, 0.0000,  
0.0000

■ 23.4852, 14.1302,  
65.7796

■ 23.4852, 14.1302,  
65.7796

■ 20.4882, 10.8703,  
65.3086

■ 27.2230, 18.4933,  
66.4251

■ 18.1670, 8.6008,  
64.9929

■ 31.7543, 24.0541,  
67.2596

■ 16.4444, 7.1813,  
64.8097

■ 37.1286, 30.8982,  
68.2974

■ 15.9400, 6.8004,  
64.7628

■ 43.3907, 39.1026,  
69.5509

■ 50.5819, 48.7383,  
71.0318

■ 58.7408, 59.8713,  
72.7507

■ 67.9037, 72.5631,  
74.7175

■ 78.1049, 86.8721,  
76.9417

■ 85.9349, 95.9692,  
78.2850

# Harmonies

## Analogous

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



15.6687, 14.1302, 89.0593



23.4852, 14.1302, 65.7796



29.6387, 14.1302, 32.5390

# Triad

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



23.4852, 14.1302, 65.7796



18.5392, 14.1302, 0.0000



4.2564, 14.1302, 22.3066

# Complementary

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



23.4852, 14.1302, 65.7796



39.7678, 56.4397, 14.9290

# 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.



4.5684, 14.1302, 5.6567



23.4852, 14.1302, 65.7796



11.4160, 14.1302, 0.0000

# Square

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



23.4852, 14.1302, 65.7796



26.1816, 14.1302, 1.7890



6.7542, 14.1302, 0.8168



5.6838, 14.1302, 53.1728



# Rectangle

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



23.4852, 14.1302, 65.7796



31.0672, 14.1302, 15.7731



6.7542, 14.1302, 0.8168



4.1760, 14.1302, 15.0041

# Sweetspot

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



23.4859, 14.1307, 65.7800



70.3750, 66.2487, 103.6859



27.5411, 31.4895, 68.9168



14.4213, 13.3201, 22.0609



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.



23.4859, 14.1307, 65.7800



28.5773, 14.4044, 95.8819



37.9556, 21.5901, 66.4571



12.1981, 12.2435, 15.6578



9.6450, 4.1247, 38.7410



0.6733, 0.2960, 2.3410



# Inverse Universe

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



36.5997, 21.5851, 35.0370



50.1722, 26.7270, 43.1271



29.5599, 51.1773, 14.4513



12.7374, 12.5465, 14.5575



19.2576, 9.6393, 13.9263

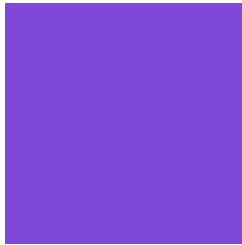


1.2016, 0.5974, 1.0513



# Previews

## White Background



This preview shows how the XYZ color 23.4852, 14.1302, 65.7796 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

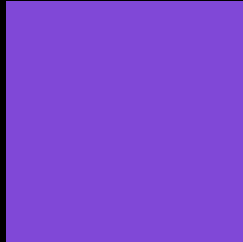
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 23.4852, 14.1302, 65.7796 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

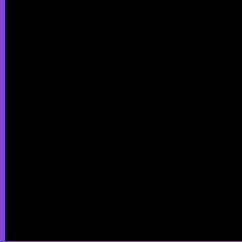
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 23.4852, 14.1302, 65.7796**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.4852, 14.1302, 65.7796.



This preview shows how white text looks on a background with the XYZ color 23.4852, 14.1302,



# 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

23.4852, 14.1302, 65.7796

### Protanopia

16.9194, 14.2137, 66.1417

### Deuteranopia

14.2273, 14.1032, 48.9860



## Tritanopia

13.7006, 14.0737, 17.3236

# Trichromacy



## Original Color

23.4852, 14.1302, 65.7796



## Protanomaly

17.0942, 12.8230, 65.8641



## Deuteranomaly

15.2530, 12.6410, 54.4594



## Tritanomaly

16.0620, 13.3349, 30.1611

# Monochromacy



## Original Color

23.4852, 14.1302, 65.7796



## Achromatopsia

13.4271, 14.1263, 15.3836



## Achromatomaly

15.8352, 13.3837, 28.5368

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.4852, 14.1302, 65.7796 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, 72, 215)` looks like.

```
.text, #text, p{  
    color:rgb(128, 72, 215)  
}
```

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, 72, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 72, 215) }
```

## Border

The CSS property to change the border of an element to XYZ 23.4852, 14.1302, 65.7796 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, 72, 215) }
```



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

```
.border{ border-color:rgb(128, 72, 215) }
```

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

Here you see how a box with a 4 pixel rgb(128, 72, 215) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 72, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 72, 215);  
box-shadow:4px 4px 4px 4px rgb(128, 72,  
215) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.4852, 14.1302, 65.7796 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 72, 215) }
```

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

```
.background{ background-color: rgb(128, 72,  
215) }
```

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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