

# Converting Colors

XYZ(48.4143, 23.1365, 96.5218)

Have a look what the booklet for  
XYZ(48.4143, 23.1365, 96.5218)  
contains.

<b>XYZ(48.3450, 23.0912, 96.5167)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(48.3450, 23.0912,  
96.5167)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DE0FFF
RGB	222, 15, 255
RGB Percent	87%, 6%, 100%
CMY	0.1294, 0.9411, 0.0000
CMYK	0.13, 0.94, 0.00, 0.00
HSL	292°, 100%, 53%
HSV	292°, 94%, 100%
XYZ	48.3450, 23.0912, 96.5167
YIQ	104.2530, 46.3320, 118.5240

# Conversions

## Conversions Part 2

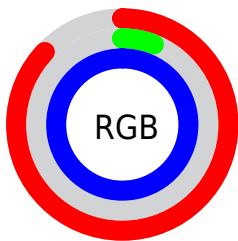
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	222, 15, 255
Decimal	14553087
CIE Lab	55.17, 92.37, -69.42
CIE LCh	55, 115.552, 323.074
Yxy	23.0912, 0.2878, 0.1375
Android (android.graphics.Color)	4292743167 (0xFFDE0FFF)
YUV	104.2530, 74.3183, 103.2641
Hunter-Lab	48.0533, 95.4903, -85.4487

# Details

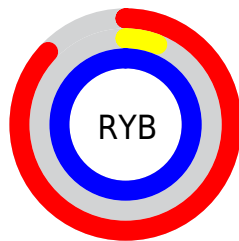
The XYZ color **48.3450, 23.0912, 96.5167** is a light color, and the websafe version is hex **CC00FF**. The color can be described as light saturated magenta. A complement of this color would be **37.0661, 72.1833, 12.4318**, and the grayscale version is **13.0277, 13.7062, 14.9260**.

A 20% lighter version of the original color is **64.0414, 37.9827, 98.5638**, and **24.7760, 11.6083, 53.7581** is the 20% darker color. If you saturate the color by 10%, you get **47.5462, 22.4258, 96.4304**, and if you desaturate by 10%, it is **50.0365, 24.8622, 96.7694**.

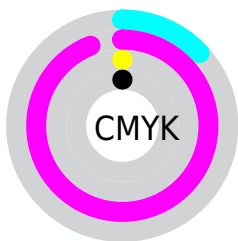
# Distribution



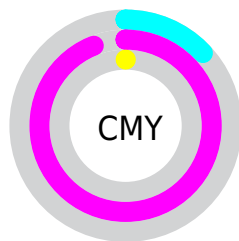
- Red (87%)
- Green (6%)
- Blue (100%)



- Red (87%)
- Yellow (6%)
- Blue (100%)



- Cyan (13%)
- Magenta (94%)
- Yellow (0%)
- Black (0%)




- Cyan (13%)
- Magenta (94%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.3450, 23.0912, 96.5167 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 48.3450, 23.0912, 96.5167 by changing the saturation by 10% instead.



 48.3450, 23.0912,  
96.5167


 48.3450, 23.0912,  
96.5167


370.7179,  
268.1931, 570.1171

 34.3126, 14.6609,  
72.7941


 86.9244, 48.5430,  
158.3719

 23.2978, 8.5817,  
53.3168


 112.2022, 66.3333,  
197.3416


 14.9355, 4.4694,  
37.6663


 141.9590, 88.0124,  
242.2307

 8.8601, 1.9394,  
25.4240

 176.5604,  
113.9646, 293.4578

 4.7065, 0.5719,  
16.1713

 216.3716,  
144.5744, 351.4415

 2.1091, 0.0000,  
9.4898

261.7580,

 0.6941, 0.0000,

180.2261, 416.6003

4.9609

313.0850,  
221.3042, 489.3526

■ 0.0000, 0.0000,  
2.1660

■ 0.0000, 0.0000,  
0.6546

■ 48.3450, 23.0912,  
96.5167

■ 48.3450, 23.0912,  
96.5167

■ 47.5462, 22.4258,  
96.4304

■ 50.0365, 24.8622,  
96.7694

■ 52.3172, 27.7791,  
97.2122

■ 55.2838, 32.0344,  
97.8772

■ 59.0147, 37.7846,  
98.7905

■ 63.5775, 45.1646,  
99.9745

■ 69.0321, 54.2941,  
101.4492

■ 75.4328, 65.2816,  
103.2326

■ 82.8297, 78.2266,  
105.3414

■ 91.2688, 93.2218,  
107.7910

# Harmonies

## Analogous

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



33.1737, 23.0912, 163.4640



48.3450, 23.0912, 96.5167



56.9239, 23.0912, 34.7179

# Triad

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



48.3450, 23.0912, 96.5167



25.0764, 23.0912, 0.0000



6.1235, 23.0912, 64.5203

# Complementary

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



48.3450, 23.0912, 96.5167



37.0661, 72.1833, 12.4318

# 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.



5.3854, 23.0912, 17.5124



48.3450, 23.0912, 96.5167



13.5914, 23.0912, 0.0000

# Square

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



48.3450, 23.0912, 96.5167



40.4753, 23.0912, 0.1916



7.4914, 23.0912, 2.0584



10.1643, 23.0912, 135.4038



# Rectangle

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



48.3450, 23.0912, 96.5167



56.0565, 23.0912, 12.2542



7.4914, 23.0912, 2.0584



5.5685, 23.0912, 44.8764

# Sweetspot

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



48.3460, 23.0921, 96.5169



72.8274, 60.7803, 102.5011



19.4318, 9.6908, 95.4541



15.0064, 12.0134, 21.7778



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.



48.3460, 23.0921, 96.5169



47.5462, 22.4258, 96.4304



48.7624, 24.5427, 40.6985



18.5326, 18.1663, 22.7796



24.9388, 11.7669, 50.3914



2.4930, 1.1791, 4.9095



# Inverse Universe

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



41.9449, 21.8157, 4.7982



41.5443, 21.3817, 3.5325



38.2100, 72.5228, 23.7919



18.1111, 18.0277, 19.2020



21.7386, 11.1847, 2.0079



2.1462, 1.1008, 0.3511



# Previews

## White Background



This preview shows how the XYZ color 48.3450, 23.0912, 96.5167 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

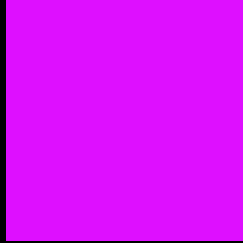
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.3450, 23.0912, 96.5167 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

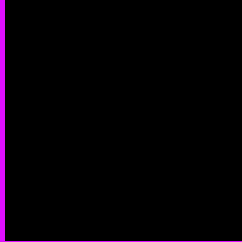
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 48.3450, 23.0912, 96.5167**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.3450, 23.0912, 96.5167.



This preview shows how white text looks on a background with the XYZ color 48.3450, 23.0912,



# 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

48.3450, 23.0912, 96.5167

### Protanopia

27.5311, 23.7613, 97.7431

### Deuteranopia

24.2440, 23.5599, 84.9311



## Tritanopia

31.9891, 23.0866, 16.9575

# Trichromacy



## Original Color

48.3450, 23.0912, 96.5167



## Protanomaly

28.7422, 17.9125, 96.5503



## Deuteranomaly

23.6159, 15.8241, 88.1959



## Tritanomaly

35.2015, 20.6552, 35.8497

# Monochromacy



## Original Color

48.3450, 23.0912, 96.5167



## Achromatopsia

13.1579, 13.8432, 15.0752



## Achromatomaly

20.6080, 13.3410, 34.2898

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.3450, 23.0912, 96.5167 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(222, 15, 255)` looks like.

```
.text, #text, p{  
    color:rgb(222, 15, 255)  
}
```

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(222, 15, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 15, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 48.3450, 23.0912, 96.5167 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(222, 15, 255) }
```



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

```
.border{ border-color:rgb(222, 15, 255) }
```

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

Here you see how a box with a 4 pixel rgb(222, 15, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 15, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 15, 255);  
box-shadow:4px 4px 4px 4px rgb(222, 15,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.3450, 23.0912, 96.5167 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 15, 255) }
```

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

```
.background{ background-color: rgb(222, 15,  
255) }
```

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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