

# Converting Colors

XYZ(46.3235, 23.7535, 83.0334)

Have a look what the booklet for  
XYZ(46.3235, 23.7535, 83.0334)  
contains.

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# Color

**XYZ(46.3497, 23.7418,  
83.0286)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DD31EE
RGB	221, 49, 238
RGB Percent	87%, 19%, 93%
CMY	0.1333, 0.8078, 0.0667
CMYK	0.07, 0.79, 0.00, 0.07
HSL	295°, 85%, 56%
HSV	295°, 79%, 93%
XYZ	46.3497, 23.7418, 83.0286
YIQ	121.9740, 41.8430, 95.2430

# Conversions

## Conversions Part 2

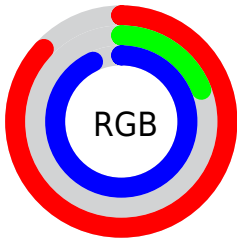
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	221, 49, 238
Decimal	14496238
CIE Lab	55.83, 83.95, -58.88
CIE LCh	56, 102.539, 324.957
Yxy	23.7418, 0.3027, 0.1551
Android (android.graphics.Color)	4292686318 (0xFFDD31EE)
YUV	121.9740, 57.2008, 86.8458
Hunter-Lab	48.7256, 84.5266, -66.9226

# Details

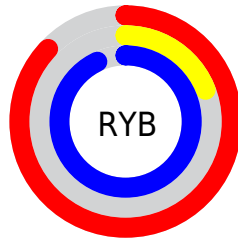
The XYZ color **46.3497, 23.7418, 83.0286** is a light color, and the websafe version is hex **CC00CC**. The color can be described as light washed magenta. A complement of this color would be **33.3764, 62.5296, 13.2170**, and the grayscale version is **18.3018, 19.2549, 20.9686**.

A 20% lighter version of the original color is **65.5354, 40.9708, 99.0618**, and **23.0384, 10.9133, 44.6083** is the 20% darker color. If you saturate the color by 10%, you get **44.9565, 21.9158, 82.7499**, and if you desaturate by 10%, it is **48.2780, 26.6236, 83.4836**.

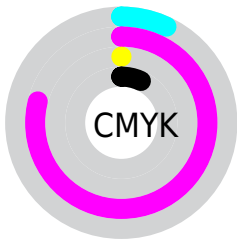
# Distribution



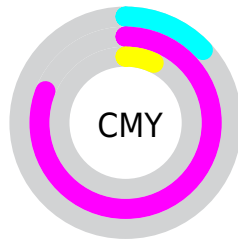
- Red (87%)
- Green (19%)
- Blue (93%)



- Red (87%)
- Yellow (19%)
- Blue (93%)



- Cyan (7%)
- Magenta (79%)
- Yellow (0%)
- Black (7%)




- Cyan (13%)
- Magenta (81%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.3497, 23.7418, 83.0286 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 46.3497, 23.7418, 83.0286 by changing the saturation by 10% instead.



 46.3497, 23.7418,  
83.0286


 46.3497, 23.7418,  
83.0286

362.9052,  
271.5125, 525.0553


 32.7277, 15.1422,  
61.6730


 83.9668, 49.6085,  
139.4651


 22.0761, 8.9192,  
44.3344


 108.6925, 67.6444,  
175.3831


 14.0298, 4.6885,  
30.5944


 137.8502, 89.5946,  
216.9923

 8.2232, 2.0657,  
20.0343

 171.8052,  
115.8433, 264.7112

 4.2911, 0.6452,  
12.2357

 210.9228,  
146.7751, 318.9585

 1.8681, 0.0000,  
6.7799

255.5685,

 0.5582, 0.0000,

182.7743, 380.1525

3.2485

306.1075,  
224.2253, 448.7120

■ 0.0000, 0.0000,  
1.2229

■ 0.0000, 0.0000,  
0.0000

■ 46.3497, 23.7418,  
83.0286

■ 46.3497, 23.7418,  
83.0286

■ 44.9565, 21.9158,  
82.7499

■ 48.2780, 26.6236,  
83.4836

■ 43.9802, 20.9126,  
82.6077

■ 50.8110, 30.7034,  
84.1375

■ 43.9274, 20.8626,  
82.6009

■ 54.0108, 36.1044,  
85.0114

■ 57.9311, 42.9339,  
86.1230

62.6200, 51.2880,  
87.4884

68.1214, 61.2547,  
89.1222

74.4760, 72.9151,  
91.0379

81.7216, 86.3448,  
93.2483

87.2188, 96.2652,  
94.8733

# Harmonies

## Analogous

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



33.4095, 23.7418, 138.7046



46.3497, 23.7418, 83.0286



53.0788, 23.7418, 31.9167

# Triad

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



46.3497, 23.7418, 83.0286



24.5949, 23.7418, 0.0000



7.7311, 23.7418, 63.5111

# Complementary

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



46.3497, 23.7418, 83.0286



33.3764, 62.5296, 13.2170

# 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.



6.7896, 23.7418, 20.6067



46.3497, 23.7418, 83.0286



14.3661, 23.7418, 0.2301

# Square

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



46.3497, 23.7418, 83.0286



38.0435, 23.7418, 0.8603



8.7369, 23.7418, 3.7315



11.9848, 23.7418, 122.1127



# Rectangle

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



46.3497, 23.7418, 83.0286



51.8977, 23.7418, 12.5676



8.7369, 23.7418, 3.7315



7.0962, 23.7418, 46.2167

# Sweetspot

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



46.3507, 23.7428, 83.0291



76.5411, 65.9455, 103.3023



18.7612, 10.9493, 82.0138



15.9015, 13.2447, 21.9683



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.



46.3507, 23.7428, 83.0291



51.8640, 24.8607, 96.6728



42.9162, 22.9976, 36.5479



16.3059, 15.9549, 19.9418



24.5645, 11.6688, 46.0855



2.0842, 0.9917, 3.8358



# Inverse Universe

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



37.3423, 20.7680, 7.1958



41.6773, 21.6601, 3.5386



35.5182, 63.2731, 29.6110



15.8305, 15.7819, 16.6638



19.7689, 10.1800, 1.4336



1.6641, 0.8547, 0.2222



# Previews

## White Background



This preview shows how the XYZ color 46.3497, 23.7418, 83.0286 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

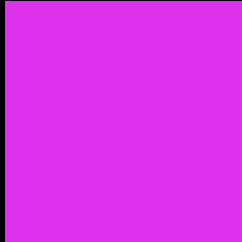
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 46.3497, 23.7418, 83.0286 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

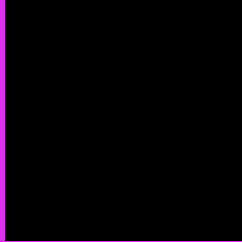
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 46.3497, 23.7418, 83.0286**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.3497, 23.7418, 83.0286.



This preview shows how white text looks on a background with the XYZ color 46.3497, 23.7418,



# 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

46.3497, 23.7418, 83.0286

### Protanopia

28.0192, 24.2094, 97.8038

### Deuteranopia

24.8531, 24.1038, 74.5768



## Tritanopia

32.6885, 23.5860, 17.2977

# Trichromacy



## Original Color

46.3497, 23.7418, 83.0286



## Protanomaly

29.4983, 20.1400, 91.9552



## Deuteranomaly

27.8374, 20.0494, 77.2656



## Tritanomaly

35.9580, 22.4357, 33.8878

# Monochromacy



## Original Color

46.3497, 23.7418, 83.0286



## Achromatopsia

18.4984, 19.4618, 21.1939



## Achromatomaly

24.8936, 18.1339, 37.3101

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.3497, 23.7418, 83.0286 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(221, 49, 238)` looks like.

```
.text, #text, p{  
    color:rgb(221, 49, 238)  
}
```

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(221, 49, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 49, 238) }
```

## Border

The CSS property to change the border of an element to XYZ 46.3497, 23.7418, 83.0286 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(221, 49, 238) }
```



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

```
.border{ border-color:rgb(221, 49, 238) }
```

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

Here you see how a box with a 4 pixel rgb(221, 49, 238) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 49, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 49, 238);  
box-shadow:4px 4px 4px 4px rgb(221, 49,  
238) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.3497, 23.7418, 83.0286 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 49, 238) }
```

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

```
.background{ background-color: rgb(221, 49,  
238) }
```

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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