

# Converting Colors

XYZ(41.0009, 20.3642, 76.6686)

Have a look what the booklet for  
XYZ(41.0009, 20.3642, 76.6686)  
contains.

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# Color

**XYZ(40.8964, 20.3251,  
76.6306)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D023E6
RGB	208, 35, 230
RGB Percent	82%, 14%, 90%
CMY	0.1843, 0.8627, 0.0980
CMYK	0.10, 0.85, 0.00, 0.10
HSL	293°, 80%, 52%
HSV	293°, 85%, 90%
XYZ	40.8964, 20.3251, 76.6306
YIQ	108.9570, 40.5130, 97.3210

# Conversions

## Conversions Part 2

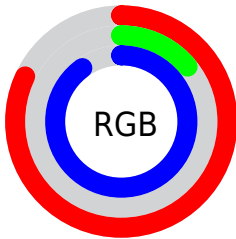
Format	Color
R <sub>Y</sub> B	208, 35, 230
Decimal	13640678
CIE Lab	52.20, 83.50, -60.31
CIE LCh	52, 102.998, 324.159
Yxy	20.3251, 0.2967, 0.1474
Android (android.graphics.Color)	4291830758 (0xFFD023E6)
YUV	108.9570, 59.6742, 86.8607
Hunter-Lab	45.0834, 83.0265, -69.2200

# Details

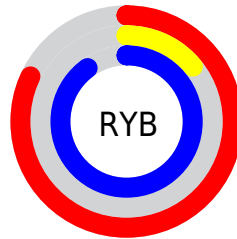
The XYZ color **40.8964, 20.3251, 76.6306** is a light color, and the websafe version is hex **CC00CC**. The color can be described as light washed magenta. A complement of this color would be **30.2882, 57.5854, 11.1095**, and the grayscale version is **14.3537, 15.1012, 16.4452**.

A 20% lighter version of the original color is **64.4440, 38.7881, 98.6980**, and **19.9373, 9.4067, 40.3000** is the 20% darker color. If you saturate the color by 10%, you get **39.7039, 19.0135, 76.4406**, and if you desaturate by 10%, it is **42.5451, 22.5296, 76.9695**.

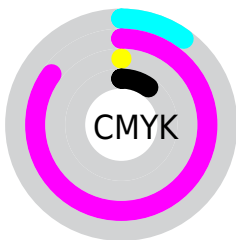
# Distribution



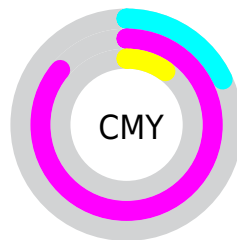
- Red (82%)
- Green (14%)
- Blue (90%)



- Red (82%)
- Yellow (14%)
- Blue (90%)



- Cyan (10%)
- Magenta (85%)
- Yellow (0%)
- Black (10%)




- Cyan (18%)
- Magenta (86%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.8964, 20.3251, 76.6306 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 40.8964, 20.3251, 76.6306 by changing the saturation by 10% instead.




 40.8964, 20.3251,  
76.6306


 40.8964, 20.3251,  
76.6306

340.9574,  
253.6697, 502.9078


 28.4255, 12.6316,  
56.4400


 75.8023, 43.9616,  
130.3861


 18.7887, 7.1753,  
40.1494


 98.9680, 60.6733,  
164.7882


 11.6208, 3.5720,  
27.3404


 126.4293, 81.1599,  
204.7644

 6.5564, 1.4372,  
17.5943

 158.5515,  
105.8058, 250.7334

 3.2301, 0.2439,  
10.4927

 195.7001,  
134.9953, 303.1137

 1.2766, 0.0000,  
5.6170

238.2404,

 0.1656, 0.0000,

169.1128, 362.3238

2.5486

286.5377,  
208.5428, 428.7824

■ 0.0000, 0.0000,  
0.8658

■ 0.0000, 0.0000,  
0.0000

■ 40.8964, 20.3251,  
76.6306

■ 40.8964, 20.3251,  
76.6306

■ 39.7039, 19.0135,  
76.4406

■ 42.5451, 22.5296,  
76.9695

■ 39.1992, 18.5580,  
76.3793

■ 44.7223, 25.7742,  
77.4810

■ 47.4901, 30.1821,  
78.1860

■ 50.9011, 35.8586,  
79.1019

■ 55.0023, 42.8972,  
80.2443

■ 59.8359, 51.3827,  
81.6274

■ 65.4410, 61.3928,  
83.2641

■ 71.8536, 72.9997,  
85.1665

■ 79.1077, 86.2711,  
87.3458

# Harmonies

## Analogous

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



28.8773, 20.3251, 128.8906



40.8964, 20.3251, 76.6306



47.3767, 20.3251, 28.5919

# Triad

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



40.8964, 20.3251, 76.6306



21.4594, 20.3251, 0.0000



6.0830, 20.3251, 55.4821

# Complementary

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



40.8964, 20.3251, 76.6306



30.2882, 57.5854, 11.1095

# 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.



5.3411, 20.3251, 16.7243



40.8964, 20.3251, 76.6306



12.1428, 20.3251, 0.0000

# Square

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



40.8964, 20.3251, 76.6306



33.8138, 20.3251, 0.4551



7.0905, 20.3251, 2.5581



9.7012, 20.3251, 110.6666



# Rectangle

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



40.8964, 20.3251, 76.6306



46.4527, 20.3251, 10.7358



7.0905, 20.3251, 2.5581



5.5611, 20.3251, 39.6210

# Sweetspot

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



40.8973, 20.3260, 76.6310



75.3787, 64.5121, 103.0869



16.4773, 9.0724, 75.7460



15.6515, 12.9564, 21.9259



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.



40.8973, 20.3260, 76.6310



49.4867, 23.4262, 96.5212



39.1723, 20.4008, 32.9953



14.8266, 14.5283, 18.1671



22.2581, 10.5404, 43.2445



1.6906, 0.8025, 3.1978



# Inverse Universe

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



33.9733, 18.3211, 5.6176



41.4589, 21.3476, 3.0828



31.7916, 58.0718, 24.2156



14.4428, 14.3943, 15.2661



18.6025, 9.5752, 1.5360



1.3968, 0.7164, 0.2299



# Previews

## White Background



This preview shows how the XYZ color 40.8964, 20.3251, 76.6306 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

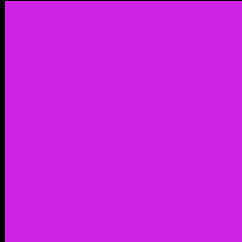
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.8964, 20.3251, 76.6306 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

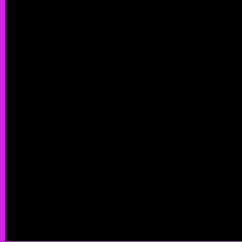
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 40.8964, 20.3251, 76.6306**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.8964, 20.3251, 76.6306.



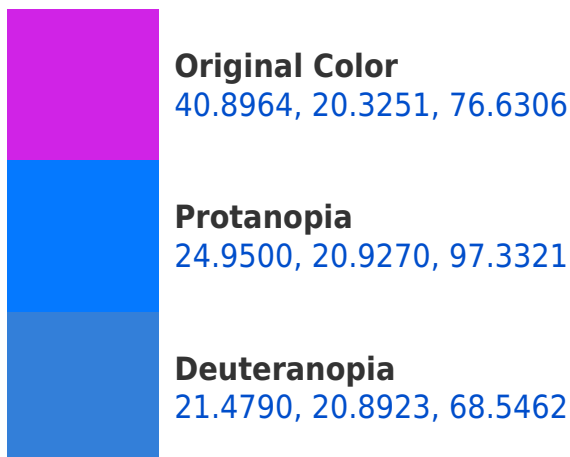
This preview shows how white text looks on a background with the XYZ color 40.8964, 20.3251,



# 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





## Tritanopia

28.0899, 20.1515, 14.7210

# Trichromacy



## Original Color

40.8964, 20.3251, 76.6306



## Protanomaly

23.5152, 15.6284, 88.9660



## Deuteranomaly

23.3719, 16.4675, 71.0540



## Tritanomaly

31.0165, 18.9090, 30.0320

# Monochromacy



## Original Color

40.8964, 20.3251, 76.6306



## Achromatopsia

14.5356, 15.2926, 16.6537



## Achromatomaly

20.4441, 14.3542, 31.8301

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.8964, 20.3251, 76.6306 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(208, 35, 230)` looks like.

```
.text, #text, p{  
    color:rgb(208, 35, 230)  
}
```

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(208, 35, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(208, 35, 230) }
```

## Border

The CSS property to change the border of an element to XYZ 40.8964, 20.3251, 76.6306 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(208, 35, 230) }
```



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

```
.border{ border-color:rgb(208, 35, 230) }
```

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

Here you see how a box with a 4 pixel rgb(208, 35, 230) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(208, 35, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(208, 35, 230);  
box-shadow:4px 4px 4px 4px rgb(208, 35,  
230) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.8964, 20.3251, 76.6306 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(208, 35, 230) }
```

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

```
.background{ background-color: rgb(208, 35,  
230) }
```

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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