

# Converting Colors

XYZ(40.1215, 17.7620, 46.0191)

Have a look what the booklet for  
XYZ(40.1215, 17.7620, 46.0191)  
contains.

<b>XYZ(41.5022, 20.4078, 46.5514)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(41.5022, 20.4078,  
46.5514)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E700B7
RGB	231, 0, 183
RGB Percent	91%, 0%, 72%
CMY	0.0941, 0.9998, 0.2824
CMYK	0.00, 1.00, 0.21, 0.09
HSL	312°, 100%, 45%
HSV	312°, 100%, 91%
XYZ	41.5022, 20.4078, 46.5514
YIQ	89.9310, 78.9330, 105.8850

# Conversions

## Conversions Part 2

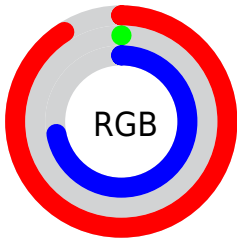
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	231, 0, 183
Decimal	15138999
CIE <sub>Lab</sub>	52.30, 84.95, -32.92
CIE <sub>LCh</sub>	52, 91.106, 338.819
Yxy	20.4078, 0.3826, 0.1882
Android (android.graphics.Color)	4293329079 (0xFFE700B7)
YUV	89.9310, 45.8830, 123.7175
Hunter-Lab	45.1750, 84.9315, -29.4740

# Details

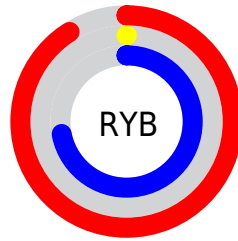
The XYZ color **41.5022, 20.4078, 46.5514** is a dark color, and the websafe version is hex **FF33CC**. The color can be described as middle washed rose. A complement of this color would be **29.1110, 57.3661, 12.3396**, and the grayscale version is **9.5967, 10.0964, 10.9950**.

A 20% lighter version of the original color is **61.0947, 36.0414, 85.3980**, and **20.6068, 10.1578, 21.9936** is the 20% darker color. If you saturate the color by 10%, you get **41.5015, 20.4075, 46.5465**, and if you desaturate by 10%, it is **42.3201, 21.2298, 49.3319**.

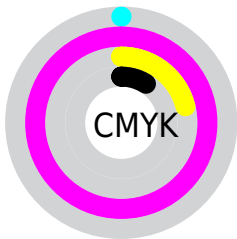
# Distribution



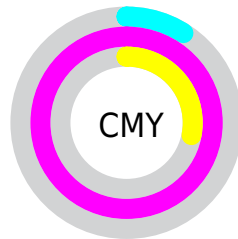
- Red (91%)
- Green (0%)
- Blue (72%)



- Red (91%)
- Yellow (0%)
- Blue (72%)



- Cyan (0%)
- Magenta (100%)
- Yellow (21%)
- Black (9%)




- Cyan (9%)
- Magenta (100%)
- Yellow (28%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.5022, 20.4078, 46.5514 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 41.5022, 20.4078, 46.5514 by changing the saturation by 10% instead.




 41.5022, 20.4078,  
46.5514

 41.5022, 20.4078,  
46.5514

343.4420,  
254.1143, 389.3628


 28.9011, 12.6918,  
32.3294


 76.7156, 44.0998,  
86.3866


 19.1499, 7.2167,  
21.3463


 100.0586, 60.8447,  
112.8368


 11.8833, 3.5980,  
13.1837


 127.7129, 81.3680,  
144.2001

 6.7359, 1.4513,  
7.4229

 160.0439,  
106.0540, 180.8952

 3.3423, 0.2541,  
3.6455

 197.4170,  
135.2873, 223.3404

 1.3373, 0.0000,  
1.4330

 240.1974,

 0.2109, 0.0000,

169.4522, 271.9544

0.1672

288.7507,  
208.9330, 327.1557

■ 0.0000, 0.0000,  
0.0000

■ 41.5022, 20.4078,  
46.5514

■ 41.5022, 20.4078,  
46.5514

■ 41.5015, 20.4075,  
46.5465

■ 42.3201, 21.2298,  
49.3319

■ 43.5230, 22.7947,  
52.3256

■ 45.2288, 25.3375,  
55.5726

■ 47.5058, 28.9945,  
59.0965

■ 50.4113, 33.8803,  
62.9173

■ 53.9956, 40.0952,  
67.0524

■ 58.3039, 47.7292,  
71.5176

■ 63.3772, 56.8643,  
76.3274

■ 69.2537, 67.5764,  
81.4953

# Harmonies

## Analogous

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



33.0185, 20.4078, 91.4994



41.5022, 20.4078, 46.5514



43.1912, 20.4078, 15.2137

# Triad

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



41.5022, 20.4078, 46.5514



16.7648, 20.4078, 0.0094



8.4768, 20.4078, 72.7704

# Complementary

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



41.5022, 20.4078, 46.5514



29.1110, 57.3661, 12.3396

# 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.



6.4883, 20.4078, 31.1037



41.5022, 20.4078, 46.5514



10.1561, 20.4078, 1.3922

# Square

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



41.5022, 20.4078, 46.5514



26.6588, 20.4078, 0.3644



6.9841, 20.4078, 8.3092



13.5905, 20.4078, 113.3558



# Rectangle

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



41.5022, 20.4078, 46.5514



39.8412, 20.4078, 5.4779



6.9841, 20.4078, 8.3092



7.5099, 20.4078, 57.5099

# Sweetspot

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



41.5029, 20.4089, 46.5518



72.8550, 59.5381, 89.3916



15.5617, 6.3568, 76.0084



15.0819, 11.8320, 18.6161



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.



41.5029, 20.4089, 46.5518



51.9010, 25.5244, 58.0700



34.0401, 17.4238, 7.2533



14.8601, 14.5612, 17.4634



23.3127, 11.4593, 26.3395



1.7551, 0.8597, 2.1168



# Inverse Universe

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



41.5029, 20.4089, 46.5518



51.9010, 25.5244, 58.0700



35.0728, 59.7508, 43.7337



14.8601, 14.5612, 17.4634



23.3127, 11.4593, 26.3395



1.7551, 0.8597, 2.1168



# Previews

## White Background



This preview shows how the XYZ color 41.5022, 20.4078, 46.5514 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

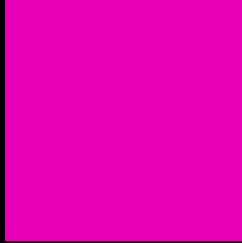
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.5022, 20.4078, 46.5514 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

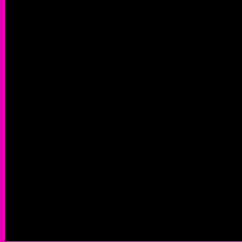
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 41.5022, 20.4078, 46.5514**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.5022, 20.4078, 46.5514.



This preview shows how white text looks on a background with the XYZ color 41.5022, 20.4078,



# 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

41.5022, 20.4078, 46.5514

### Protanopia

25.5746, 21.4304, 97.3963

### Deuteranopia

21.4944, 21.1182, 41.4714



## Tritanopia

33.7461, 20.6861, 9.0517

# Trichromacy



## Original Color

41.5022, 20.4078, 46.5514



## Protanomaly

22.5762, 14.0490, 75.6506



## Deuteranomaly

24.3168, 15.9004, 42.3449



## Tritanomaly

35.1228, 19.1993, 18.0743

# Monochromacy



## Original Color

41.5022, 20.4078, 46.5514



## Achromatopsia

9.7181, 10.2242, 11.1341



## Achromatomaly

16.0857, 10.0442, 20.1597

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.5022, 20.4078, 46.5514 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(231, 0, 183)` looks like.

```
.text, #text, p{  
    color:rgb(231, 0, 183)  
}
```

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(231, 0, 183) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 0, 183) }
```

## Border

The CSS property to change the border of an element to XYZ 41.5022, 20.4078, 46.5514 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(231, 0, 183) }
```



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

```
.border{ border-color:rgb(231, 0, 183) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 0, 183)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 0, 183); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 0, 183);  
box-shadow:4px 4px 4px 4px rgb(231, 0,  
183) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.5022, 20.4078, 46.5514 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 0, 183) }
```

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

```
.background{ background-color: rgb(231, 0,  
183) }
```

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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