

# Converting Colors

XYZ(36.7770, 20.1555, 30.3858)

Have a look what the booklet for  
XYZ(36.7770, 20.1555, 30.3858)  
contains.

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# Color

**XYZ(36.7770, 20.1555,  
30.3858)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DE3495
RGB	222, 52, 149
RGB Percent	87%, 20%, 58%
CMY	0.1294, 0.7960, 0.4157
CMYK	0.00, 0.77, 0.33, 0.13
HSL	326°, 72%, 54%
HSV	326°, 77%, 87%
XYZ	36.7770, 20.1555, 30.3858
YIQ	113.8880, 70.1830, 66.2070

# Conversions

## Conversions Part 2

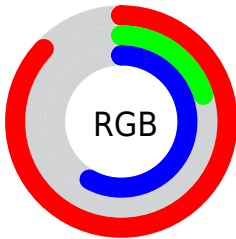
Format	Color
R <sub>Y</sub> B	222, 52, 149
Decimal	14562453
CIE <sub>Lab</sub>	52.01, 71.19, -13.43
CIE <sub>LCh</sub>	52, 72.447, 349.313
Yxy	20.1555, 0.4212, 0.2308
Android (android.graphics.Color)	4292752533 (0xFFDE3495)
YUV	113.8880, 17.3102, 94.8142
Hunter-Lab	44.8949, 67.6577, -8.7023

# Details

The XYZ color **36.7770, 20.1555, 30.3858** is a dark color, and the websafe version is hex **CC3399**. The color can be described as middle muted rose. A complement of this color would be **31.2405, 54.4540, 28.2700**, and the grayscale version is **15.8974, 16.7253, 18.2138**.

A 20% lighter version of the original color is **58.1502, 37.8333, 60.7376**, and **17.1049, 8.5632, 12.3066** is the 20% darker color. If you saturate the color by 10%, you get **35.2782, 18.3264, 26.2833**, and if you desaturate by 10%, it is **38.8048, 22.9426, 34.9724**.

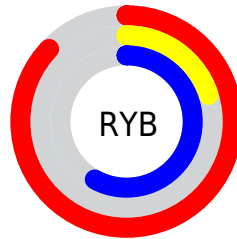
# Distribution



Red (87%)

Green (20%)

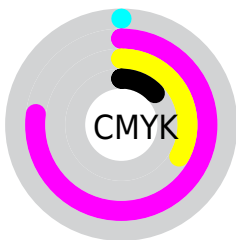
Blue (58%)



Red (87%)

Yellow (20%)

Blue (58%)

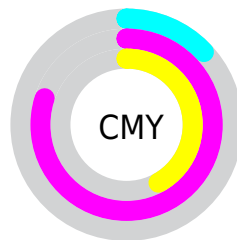


Cyan (0%)

Magenta (77%)

Yellow (33%)

Black (13%)



Cyan (13%)

Magenta (80%)

Yellow (42%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.7770, 20.1555, 30.3858 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 36.7770, 20.1555, 30.3858 by changing the saturation by 10% instead.





 36.7770, 20.1555,  
30.3858


 36.7770, 20.1555,  
30.3858


323.7164,  
252.7557, 317.9617


 25.2078, 12.5081,  
19.8771


 69.5457, 43.6777,  
61.3400


 16.3615, 7.0907,  
12.1225


 91.4759, 60.3214,  
82.6225


 9.8728, 3.5189,  
6.7036


 117.5905, 80.7326,  
108.3333

 5.3763, 1.4083,  
3.2018

 148.2548,  
105.2957, 138.8911

 2.5067, 0.2228,  
1.1986

 183.8342,  
134.3952, 174.7143

 0.8986, 0.0000,  
0.0000

224.6940,

 0.0000, 0.0000,

168.4155, 216.2214

0.0000

271.1996,  
207.7408, 263.8311

■ 36.7770, 20.1555,  
30.3858

■ 36.7770, 20.1555,  
30.3858

■ 35.2782, 18.3264,  
26.2833

■ 38.8048, 22.9426,  
34.9724

■ 34.2316, 17.3048,  
22.6316

■ 41.4190, 26.8004,  
40.0687

■ 33.9332, 17.0532,  
21.4673

■ 44.6708, 31.8294,  
45.6991

■ 48.6055, 38.1176,  
51.8850

■ 53.2636, 45.7443,  
58.6465

■ 58.6827, 54.7823,  
66.0023

■ 64.8975, 65.2993,  
73.9701

■ 71.9405, 77.3584,  
82.5667

■ 79.8425, 91.0191,  
91.8080

# Harmonies

## Analogous

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



32.0711, 20.1555, 60.5771



36.7770, 20.1555, 30.3858



35.9295, 20.1555, 11.0548

# Triad

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



36.7770, 20.1555, 30.3858



14.8334, 20.1555, 1.5908



11.3098, 20.1555, 69.4954

# Complementary

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



36.7770, 20.1555, 30.3858



31.2405, 54.4540, 28.2700

# 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.



8.6367, 20.1555, 38.3347



36.7770, 20.1555, 30.3858



10.2796, 20.1555, 4.6751

# Square

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



36.7770, 20.1555, 30.3858



21.9134, 20.1555, 1.3311



8.3157, 20.1555, 15.2343



16.6423, 20.1555, 91.0919



# Rectangle

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



36.7770, 20.1555, 30.3858



32.3806, 20.1555, 4.9466



8.3157, 20.1555, 15.2343



10.1358, 20.1555, 59.1194

# Sweetspot

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



36.7776, 20.1566, 30.3861



75.3157, 66.6006, 83.6112



22.5589, 11.9302, 70.2211



15.5710, 13.3438, 17.1336



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.



36.7776, 20.1566, 30.3861



47.3511, 24.1161, 32.8418



32.3414, 18.3821, 7.0253



14.0333, 13.8309, 15.9454



20.2124, 10.1520, 13.0500



1.4456, 0.7215, 1.1395



# Inverse Universe

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



36.7776, 20.1566, 30.3861



47.3511, 24.1161, 32.8418



38.9029, 57.5189, 68.6196



14.0333, 13.8309, 15.9454



20.2124, 10.1520, 13.0500



1.4456, 0.7215, 1.1395



# Previews

## White Background



This preview shows how the XYZ color 36.7770, 20.1555, 30.3858 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

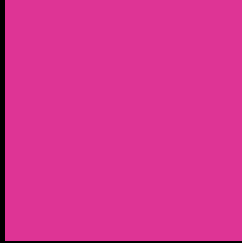
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.7770, 20.1555, 30.3858 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 36.7770, 20.1555, 30.3858**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.7770, 20.1555, 30.3858.



This preview shows how white text looks on a background with the XYZ color 36.7770, 20.1555,



# 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

36.7770, 20.1555, 30.3858

### Protanopia

21.9764, 20.4831, 56.2214

### Deuteranopia

20.6243, 20.2353, 27.6297



## Tritanopia

32.4392, 20.1993, 9.3969

# Trichromacy



## Original Color

36.7770, 20.1555, 30.3858



## Protanomaly

23.6682, 17.5955, 45.3288



## Deuteranomaly

24.2451, 18.1354, 28.2092



## Tritanomaly

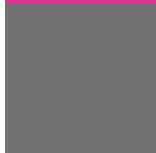
33.6603, 19.9560, 15.1745

# Monochromacy



## Original Color

36.7770, 20.1555, 30.3858



## Achromatopsia

15.9940, 16.8269, 18.3245



## Achromatomaly

20.7087, 15.7868, 22.0344

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.7770, 20.1555, 30.3858 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, 52, 149)` looks like.

```
.text, #text, p{  
    color:rgb(222, 52, 149)  
}
```

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, 52, 149) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 52, 149) }
```

## Border

The CSS property to change the border of an element to XYZ 36.7770, 20.1555, 30.3858 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, 52, 149) }
```



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

```
.border{ border-color:rgb(222, 52, 149) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 52, 149)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 52, 149); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 52, 149);  
box-shadow:4px 4px 4px 4px rgb(222, 52,  
149) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.7770, 20.1555, 30.3858 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 52, 149) }
```

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

```
.background{ background-color: rgb(222, 52,  
149) }
```

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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