

# Converting Colors

XYZ(40.6052, 20.4744, 22.6167)

Have a look what the booklet for  
XYZ(40.6052, 20.4744, 22.6167)  
contains.

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# Color

**XYZ(40.5804, 20.4622,  
22.5797)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F20081
RGB	242, 0, 129
RGB Percent	95%, 0%, 51%
CMY	0.0510, 0.9998, 0.4941
CMYK	0.00, 1.00, 0.47, 0.05
HSL	328°, 100%, 47%
HSV	328°, 100%, 95%
XYZ	40.5804, 20.4622, 22.5797
YIQ	87.0640, 102.8230, 91.4230

# Conversions

## Conversions Part 2

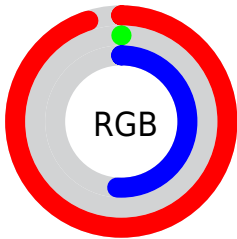
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 0, 129
Decimal	15859841
CIE <sub>Lab</sub>	52.36, 81.86, -0.53
CIE <sub>LCh</sub>	52, 81.863, 359.632
Yxy	20.4622, 0.4853, 0.2447
Android (android.graphics.Color)	4294049921 (0xFFFF20081)
YUV	87.0640, 20.6744, 135.8789
Hunter-Lab	45.2352, 80.9706, 2.0693

# Details

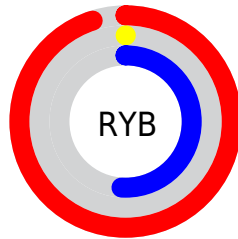
The XYZ color **40.5804, 20.4622, 22.5797** is a dark color, and the websafe version is hex **FF3399**. The color can be described as dark saturated rose. A complement of this color would be **34.7365, 64.6980, 26.2963**, and the grayscale version is **9.0209, 9.4907, 10.3354**.

A 20% lighter version of the original color is **53.9582, 33.1868, 47.8177**, and **20.0384, 10.1629, 8.4949** is the 20% darker color. If you saturate the color by 10%, you get **40.5786, 20.4615, 22.5706**, and if you desaturate by 10%, it is **41.7058, 21.4435, 26.8691**.

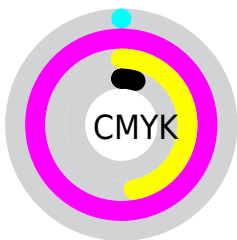
# Distribution



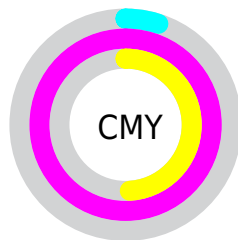
- Red (95%)
- Green (0%)
- Blue (51%)



- Red (95%)
- Yellow (0%)
- Blue (51%)



- Cyan (0%)
- Magenta (100%)
- Yellow (47%)
- Black (5%)




- Cyan (5%)
- Magenta (100%)
- Yellow (49%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.5804, 20.4622, 22.5797 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 40.5804, 20.4622, 22.5797 by changing the saturation by 10% instead.





 40.5804, 20.4622,  
22.5797


 40.5804, 20.4622,  
22.5797


339.6565,  
254.4064, 278.6104


 28.1776, 12.7315,  
14.0811


 75.3253, 44.1907,  
48.6167


 18.6007, 7.2439,  
8.0377


 98.3980, 60.9574,  
66.9921


 11.4844, 3.6151,  
4.0310


 125.7581, 81.5047,  
89.4970

 6.4633, 1.4607,  
1.6423


 157.7709,  
106.2172, 116.5497

 3.1721, 0.2608,  
0.3208

 194.8018,  
135.4792, 148.5689

 1.2454, 0.0000,  
0.0000

 237.2161,

 0.1418, 0.0000,

169.6751, 185.9730

0.0000

285.3792,  
209.1894, 229.1807

■ 0.0000, 0.0000,  
0.0000

■ 40.5804, 20.4622,  
22.5797

■ 40.5804, 20.4622,  
22.5797

■ 40.5786, 20.4615,  
22.5706

■ 41.7058, 21.4435,  
26.8691

■ 43.3288, 23.2827,  
31.7470

■ 45.5805, 26.2383,  
37.2693

■ 48.5398, 30.4642,  
43.4740

■ 52.2733, 36.0901,  
50.3945

■ 56.8394, 43.2291,  
58.0610

■ 62.2905, 51.9830,  
66.5015

■ 68.6748, 62.4445,  
75.7421

■ 76.0367, 74.6992,  
85.8075

# Harmonies

## Analogous

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



37.0563, 20.4622, 54.9586



40.5804, 20.4622, 22.5797



37.2167, 20.4622, 6.3061

# Triad

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



40.5804, 20.4622, 22.5797



12.4843, 20.4622, 1.3860



12.3504, 20.4622, 91.1386

# Complementary

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



40.5804, 20.4622, 22.5797



34.7365, 64.6980, 26.2963

# 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.



8.4868, 20.4622, 54.0201



40.5804, 20.4622, 22.5797



8.5470, 20.4622, 6.0858

# Square

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



40.5804, 20.4622, 22.5797



19.5531, 20.4622, 0.5878



7.3248, 20.4622, 21.9827



19.3447, 20.4622, 108.4193



# Rectangle

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



40.5804, 20.4622, 22.5797



31.9514, 20.4622, 2.3247



7.3248, 20.4622, 21.9827



10.7250, 20.4622, 79.6745

# Sweetspot

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



40.5810, 20.4634, 22.5800



70.0819, 58.4289, 74.7891



22.8329, 9.9203, 84.7156



14.4190, 11.5669, 15.1254



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.



40.5810, 20.4634, 22.5800



45.6770, 23.0348, 25.2950



36.6630, 18.8962, 1.9482



16.1249, 15.8997, 18.2141



21.8690, 11.0200, 12.4926



1.8695, 0.9369, 1.3038



# Inverse Universe

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



40.5810, 20.4634, 22.5800



45.6770, 23.0348, 25.2950



46.5947, 69.4413, 88.7406



16.1249, 15.8997, 18.2141



21.8690, 11.0200, 12.4926



1.8695, 0.9369, 1.3038



# Previews

## White Background



This preview shows how the XYZ color 40.5804, 20.4622, 22.5797 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 40.5804, 20.4622, 22.5797 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 40.5804, 20.4622, 22.5797**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.5804, 20.4622, 22.5797.



This preview shows how white text looks on a background with the XYZ color 40.5804, 20.4622,



# 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

40.5804, 20.4622, 22.5797

### Protanopia

22.0144, 21.0246, 49.3523

### Deuteranopia

21.2738, 20.9137, 20.3683



## Tritanopia

37.0636, 20.7927, 5.3087

# Trichromacy



## Original Color

40.5804, 20.4622, 22.5797



## Protanomaly

23.1051, 15.2771, 37.3283



## Deuteranomaly

24.6596, 16.3438, 20.5939



## Tritanomaly

37.5611, 19.9629, 9.4630

# Monochromacy



## Original Color

40.5804, 20.4622, 22.5797



## Achromatopsia

9.0590, 9.5307, 10.3790



## Achromatomaly

15.0922, 9.5313, 13.6147

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.5804, 20.4622, 22.5797 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(242, 0, 129)` looks like.

```
.text, #text, p{  
    color:rgb(242, 0, 129)  
}
```

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(242, 0, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 0, 129) }
```

## Border

The CSS property to change the border of an element to XYZ 40.5804, 20.4622, 22.5797 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(242, 0, 129) }
```



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

```
.border{ border-color:rgb(242, 0, 129) }
```

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

Here you see how a box with a 4 pixel rgb(242, 0, 129) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 0, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 0, 129);  
box-shadow:4px 4px 4px 4px rgb(242, 0,  
129) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.5804, 20.4622, 22.5797 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 0, 129) }
```

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

```
.background{ background-color: rgb(242, 0,  
129) }
```

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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