

# Converting Colors

XYZ(41.5684, 20.8084, 31.7488)

Have a look what the booklet for  
XYZ(41.5684, 20.8084, 31.7488)  
contains.

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# Color

**XYZ(41.7067, 20.8686,  
31.9668)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F00299
RGB	240, 2, 153
RGB Percent	94%, 1%, 60%
CMY	0.0588, 0.9919, 0.4000
CMYK	0.00, 0.99, 0.36, 0.06
HSL	322°, 98%, 47%
HSV	322°, 99%, 94%
XYZ	41.7067, 20.8686, 31.9668
YIQ	90.3760, 93.3770, 97.4170

# Conversions

## Conversions Part 2

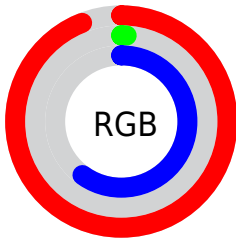
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	240, 2, 153
Decimal	15729305
CIE <sub>Lab</sub>	52.81, 83.37, -14.30
CIE <sub>LCh</sub>	53, 84.591, 350.270
Yxy	20.8686, 0.4411, 0.2207
Android (android.graphics.Color)	4293919385 (0xFFFF00299)
YUV	90.3760, 30.8736, 131.2202
Hunter-Lab	45.6822, 83.0224, -9.5116

# Details

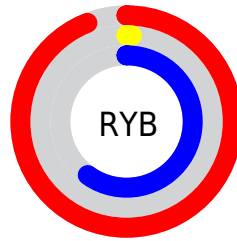
The XYZ color **41.7067, 20.8686, 31.9668** is a dark color, and the websafe version is hex **FF0099**. The color can be described as middle saturated rose. A complement of this color would be **32.9913, 63.0557, 19.8951**, and the grayscale version is **9.7274, 10.2340, 11.1448**.

A 20% lighter version of the original color is **56.8702, 34.5004, 62.6933**, and **20.7584, 10.4243, 13.4884** is the 20% darker color. If you saturate the color by 10%, you get **41.6232, 20.8005, 31.6341**, and if you desaturate by 10%, it is **42.8074, 21.8671, 36.0423**.

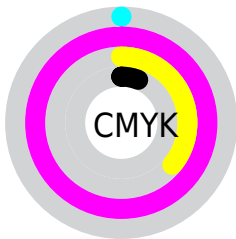
# Distribution



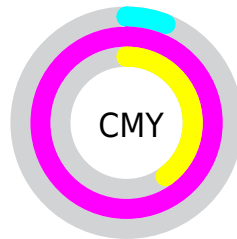
- Red (94%)
- Green (1%)
- Blue (60%)



- Red (94%)
- Yellow (1%)
- Blue (60%)



- Cyan (0%)
- Magenta (99%)
- Yellow (36%)
- Black (6%)



- Cyan (6%)
- Magenta (99%)
- Yellow (40%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.7067, 20.8686, 31.9668 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 41.7067, 20.8686, 31.9668 by changing the saturation by 10% instead.





 41.7067, 20.8686,  
31.9668


 41.7067, 20.8686,  
31.9668


344.2780,  
256.5794, 325.4561


 29.0618, 13.0280,  
21.0715


 77.0235, 44.8687,  
63.8563

 19.2721, 7.4478,  
12.9845


 100.4261, 61.7971,  
85.6877


 11.9722, 3.7437,  
7.2873


 128.1453, 82.5234,  
112.0015

 6.7968, 1.5313,  
3.5613

 160.5465,  
107.4322, 143.2163

 3.3806, 0.3106,  
1.3879

 197.9950,  
136.9078, 179.7506

 1.3581, 0.0000,  
0.1322

 240.8562,

 0.2260, 0.0000,

171.3346, 222.0230

0.0000

289.4954,  
211.0970, 270.4519

■ 0.0000, 0.0000,  
0.0000

■ 41.7067, 20.8686,  
31.9668

■ 41.7067, 20.8686,  
31.9668

■ 41.6232, 20.8005,  
31.6341

■ 42.8074, 21.8671,  
36.0423

■ 44.3860, 23.7342,  
40.5455

■ 46.5572, 26.6978,  
45.5199

■ 49.3959, 30.9058,  
50.9957

■ 52.9651, 36.4830,  
56.9989

■ 57.3205, 43.5388,  
63.5529

■ 62.5120, 52.1716,  
70.6791

■ 68.5853, 62.4712,  
78.3973

■ 75.5826, 74.5206,  
86.7262

# Harmonies

## Analogous

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



35.9606, 20.8686, 70.1021



41.7067, 20.8686, 31.9668



40.3962, 20.8686, 9.6999

# Triad

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



41.7067, 20.8686, 31.9668



14.5168, 20.8686, 0.8174



10.8443, 20.8686, 84.3532

# Complementary

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



41.7067, 20.8686, 31.9668



32.9913, 63.0557, 19.8951

# 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.



7.7937, 20.8686, 44.0653



41.7067, 20.8686, 31.9668



9.4359, 20.8686, 3.6627

# Square

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



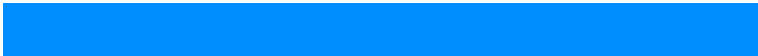
41.7067, 20.8686, 31.9668



22.8438, 20.8686, 0.5362



7.3687, 20.8686, 15.4578



17.1027, 20.8686, 112.1897



# Rectangle

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



41.7067, 20.8686, 31.9668



35.8078, 20.8686, 3.5596



7.3687, 20.8686, 15.4578



9.4988, 20.8686, 70.8493

# Sweetspot

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



41.7073, 20.8698, 31.9671



71.1293, 58.8478, 80.3042



19.5273, 8.2829, 83.0078



14.6680, 11.6664, 16.4363



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.



41.7073, 20.8698, 31.9671



47.7407, 23.8603, 36.1623



36.3033, 18.7082, 3.5099



16.1948, 15.9276, 18.5820



22.8513, 11.4130, 17.6655



1.9487, 0.9685, 1.7205



# Inverse Universe

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



41.7073, 20.8698, 31.9671



47.7407, 23.8603, 36.1623



42.1219, 66.7080, 67.9766



16.1948, 15.9276, 18.5820



22.8513, 11.4130, 17.6655



1.9487, 0.9685, 1.7205



# Previews

## White Background



This preview shows how the XYZ color 41.7067, 20.8686, 31.9668 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

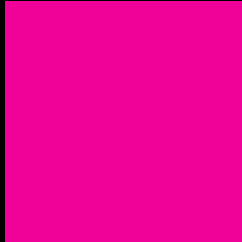
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.7067, 20.8686, 31.9668 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 41.7067, 20.8686, 31.9668**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.7067, 20.8686, 31.9668.



This preview shows how white text looks on a background with the XYZ color 41.7067, 20.8686,

31.9668.

# 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

41.7067, 20.8686, 31.9668

### Protanopia

23.9576, 21.7601, 69.9553

### Deuteranopia

21.7630, 21.3548, 28.5660



## Tritanopia

36.4447, 21.0830, 6.8512

# Trichromacy



## Original Color

41.7067, 20.8686, 31.9668



## Protanomaly

23.8743, 15.4282, 53.3494



## Deuteranomaly

25.0702, 16.5833, 29.0737



## Tritanomaly

37.4289, 20.1284, 12.9788

# Monochromacy



## Original Color

41.7067, 20.8686, 31.9668



## Achromatopsia

9.7181, 10.2242, 11.1341



## Achromatomaly

16.1707, 10.2381, 16.7466

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.7067, 20.8686, 31.9668 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(240, 2, 153)` looks like.

```
.text, #text, p{  
    color:rgb(240, 2, 153)  
}
```

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(240, 2, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(240, 2, 153) }
```

## Border

The CSS property to change the border of an element to XYZ 41.7067, 20.8686, 31.9668 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(240, 2, 153) }
```



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

```
.border{ border-color:rgb(240, 2, 153) }
```

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

Here you see how a box with a 4 pixel rgb(240, 2, 153) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(240, 2, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(240, 2, 153);  
box-shadow:4px 4px 4px 4px rgb(240, 2,  
153) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.7067, 20.8686, 31.9668 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(240, 2, 153) }
```

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

```
.background{ background-color: rgb(240, 2,  
153) }
```

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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