

# Converting Colors

XYZ(41.7694, 20.9477, 28.3925)

Have a look what the booklet for  
XYZ(41.7694, 20.9477, 28.3925)  
contains.

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# Color

**XYZ(41.6520, 20.8909,  
28.2226)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F20090
RGB	242, 0, 144
RGB Percent	95%, 0%, 56%
CMY	0.0510, 0.9998, 0.4353
CMYK	0.00, 1.00, 0.40, 0.05
HSL	324°, 100%, 47%
HSV	324°, 100%, 95%
XYZ	41.6520, 20.8909, 28.2226
YIQ	88.7740, 98.0080, 96.0880

# Conversions

## Conversions Part 2

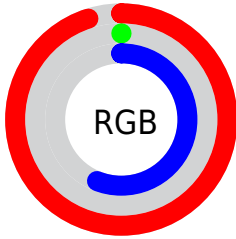
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 0, 144
Decimal	15859856
CIE <sub>Lab</sub>	52.83, 83.10, -8.85
CIE <sub>LCh</sub>	53, 83.572, 353.923
Yxy	20.8909, 0.4589, 0.2302
Android (android.graphics.Color)	4294049936 (0xFFFF20090)
YUV	88.7740, 27.2264, 134.3792
Hunter-Lab	45.7066, 82.6790, -4.6154

# Details

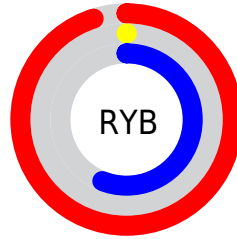
The XYZ color **41.6520, 20.8909, 28.2226** is a dark color, and the websafe version is hex **FF0099**. The color can be described as middle saturated rose. A complement of this color would be **33.9601, 64.3875, 22.2077**, and the grayscale version is **9.3795, 9.8680, 10.7462**.

A 20% lighter version of the original color is **55.8007, 34.0726, 57.0617**, and **20.8428, 10.5115, 11.5201** is the 20% darker color. If you saturate the color by 10%, you get **41.6502, 20.8901, 28.2132**, and if you desaturate by 10%, it is **42.7662, 21.8677, 32.4526**.

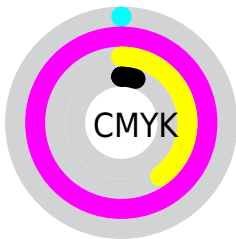
# Distribution



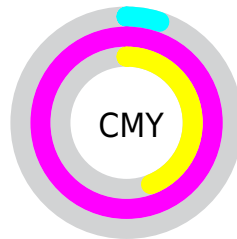
- Red (95%)
- Green (0%)
- Blue (56%)



- Red (95%)
- Yellow (0%)
- Blue (56%)



- Cyan (0%)
- Magenta (100%)
- Yellow (40%)
- Black (5%)




- Cyan (5%)
- Magenta (100%)
- Yellow (44%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.6520, 20.8909, 28.2226 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 41.6520, 20.8909, 28.2226 by changing the saturation by 10% instead.




 41.6520, 20.8909,  
28.2226

 41.6520, 20.8909,  
28.2226


344.0545,  
256.6981, 307.4744

 29.0188, 13.0443,  
18.2530


 76.9411, 44.9059,  
57.8670


 19.2394, 7.4590,  
10.9605


 100.3278, 61.8430,  
78.3789


 11.9484, 3.7508,  
5.9264


 128.0297, 82.5792,  
103.2420

 6.7805, 1.5352,  
2.7323

 160.4121,  
107.4987, 132.8749

 3.3703, 0.3133,  
0.9596

 197.8405,  
136.9859, 167.6960

 1.3525, 0.0000,  
0.0000

 240.6801,

 0.2220, 0.0000,

171.4253, 208.1239

0.0000

289.2963,  
211.2012, 254.5772

■ 0.0000, 0.0000,  
0.0000

■ 41.6520, 20.8909,  
28.2226

■ 41.6520, 20.8909,  
28.2226

■ 41.6502, 20.8901,  
28.2132

■ 42.7662, 21.8677,  
32.4526

■ 44.3589, 23.6949,  
37.1708

■ 46.5603, 26.6304,  
42.4283

■ 49.4486, 30.8280,  
48.2584

■ 53.0893, 36.4169,  
54.6901

■ 57.5401, 43.5099,  
61.7494

■ 62.8528, 52.2085,  
69.4604

■ 69.0747, 62.6052,  
77.8453

■ 76.2494, 74.7852,  
86.9249

# Harmonies

## Analogous

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



36.7402, 20.8909, 64.4033



41.6520, 20.8909, 28.2226



39.4830, 20.8909, 8.2945

# Triad

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



41.6520, 20.8909, 28.2226



13.7994, 20.8909, 1.0286



11.5235, 20.8909, 87.8888

# Complementary

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



41.6520, 20.8909, 28.2226



33.9601, 64.3875, 22.2077

# 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.



8.1283, 20.8909, 48.3290



41.6520, 20.8909, 28.2226



9.1475, 20.8909, 4.5610

# Square

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



41.6520, 20.8909, 28.2226



21.6860, 20.8909, 0.5581



7.4079, 20.8909, 18.0292



18.1323, 20.8909, 111.8077



# Rectangle

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



41.6520, 20.8909, 28.2226



34.5603, 20.8909, 3.0437



7.4079, 20.8909, 18.0292



10.0564, 20.8909, 75.0206

# Sweetspot

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



41.6526, 20.8921, 28.2229



70.7164, 58.6827, 78.1302



20.9398, 8.9444, 84.6271



14.5696, 11.6271, 15.9184



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.



41.6526, 20.8921, 28.2229



46.8839, 23.5175, 31.6502



36.7860, 18.9455, 2.5960



16.1675, 15.9167, 18.4384



22.4443, 11.2501, 15.5221



1.9163, 0.9556, 1.5501



# Inverse Universe

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



41.6526, 20.8921, 28.2229



46.8839, 23.5175, 31.6502



44.3823, 68.5563, 77.0899



16.1675, 15.9167, 18.4384



22.4443, 11.2501, 15.5221



1.9163, 0.9556, 1.5501



# Previews

## White Background



This preview shows how the XYZ color 41.6520, 20.8909, 28.2226 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

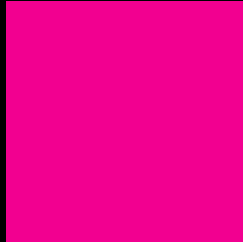
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.6520, 20.8909, 28.2226 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 41.6520, 20.8909, 28.2226**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.6520, 20.8909, 28.2226.



This preview shows how white text looks on a background with the XYZ color 41.6520, 20.8909,



# 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

41.6520, 20.8909, 28.2226

### Protanopia

23.4200, 21.6590, 61.9777

### Deuteranopia

21.8273, 21.4549, 25.5450



## Tritanopia

37.1776, 21.2465, 6.2792

# Trichromacy



## Original Color

41.6520, 20.8909, 28.2226



## Protanomaly

23.9148, 15.5876, 47.0957



## Deuteranomaly

25.0626, 16.5409, 25.9165



## Tritanomaly

38.0729, 20.3507, 11.5943

# Monochromacy



## Original Color

41.6520, 20.8909, 28.2226



## Achromatopsia

9.4954, 9.9899, 10.8790



## Achromatomaly

15.9005, 10.0501, 15.5698

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.6520, 20.8909, 28.2226 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, 144)` looks like.

```
.text, #text, p{  
    color:rgb(242, 0, 144)  
}
```

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, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 0, 144) }
```

## Border

The CSS property to change the border of an element to XYZ 41.6520, 20.8909, 28.2226 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, 144) }
```



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

```
.border{ border-color:rgb(242, 0, 144) }
```

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, 144)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 0, 144); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 0, 144);  
box-shadow:4px 4px 4px 4px rgb(242, 0,  
144) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.6520, 20.8909, 28.2226 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, 144) }
```

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

```
.background{ background-color: rgb(242, 0,  
144) }
```

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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