

# Converting Colors

XYZ(42.8564, 20.8039, 81.9912)

Have a look what the booklet for  
XYZ(42.8564, 20.8039, 81.9912)  
contains.

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# Color

**XYZ(42.7641, 20.7647,  
81.8748)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D418ED
RGB	212, 24, 237
RGB Percent	83%, 9%, 93%
CMY	0.1686, 0.9058, 0.0706
CMYK	0.11, 0.90, 0.00, 0.07
HSL	293°, 86%, 51%
HSV	293°, 90%, 93%
XYZ	42.7641, 20.7647, 81.8748
YIQ	104.4940, 43.6750, 106.0990

# Conversions

## Conversions Part 2

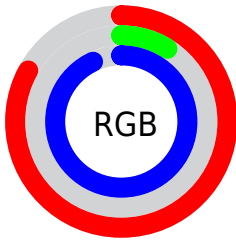
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	212, 24, 237
Decimal	13900013
CIE <sub>Lab</sub>	52.69, 87.05, -63.44
CIE <sub>LCh</sub>	53, 107.714, 323.918
Yxy	20.7647, 0.2941, 0.1428
Android (android.graphics.Color)	4292090093 (0xFFD418ED)
YUV	104.4940, 65.3255, 94.2828
Hunter-Lab	45.5683, 87.7709, -74.6314

# Details

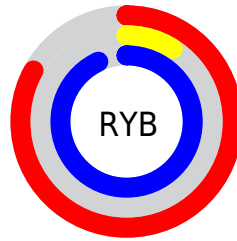
The XYZ color **42.7641, 20.7647, 81.8748** is a light color, and the websafe version is hex **CC33FF**. The color can be described as light washed magenta. A complement of this color would be **31.7164, 61.2878, 11.0229**, and the grayscale version is **13.1146, 13.7975, 15.0255**.

A 20% lighter version of the original color is **64.0414, 37.9827, 98.5638**, and **21.1871, 9.9707, 43.9879** is the 20% darker color. If you saturate the color by 10%, you get **41.6465, 19.7087, 81.7302**, and if you desaturate by 10%, it is **44.2922, 22.6192, 82.1525**.

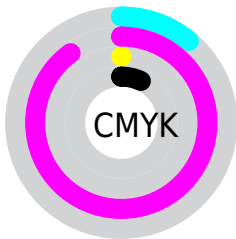
# Distribution



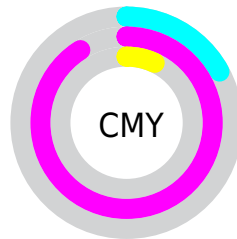
- Red (83%)
- Green (9%)
- Blue (93%)



- Red (83%)
- Yellow (9%)
- Blue (93%)



- Cyan (11%)
- Magenta (90%)
- Yellow (0%)
- Black (7%)



- Cyan (17%)
- Magenta (91%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.7641, 20.7647, 81.8748 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 42.7641, 20.7647, 81.8748 by changing the saturation by 10% instead.




 42.7641, 20.7647,  
81.8748


 42.7641, 20.7647,  
81.8748

348.5787,  
256.0254, 521.1013


 29.8938, 12.9521,  
60.7271


 78.6127, 44.6956,  
137.8335


 19.9057, 7.3956,  
43.5759


 102.3217, 61.5827,  
173.4817


 12.4343, 3.7107,  
30.0025


 130.3743, 82.2634,  
214.8003

 7.1145, 1.5131,  
19.5884

 163.1358,  
107.1222, 262.2082

 3.5808, 0.2979,  
11.9151

 200.9717,  
136.5434, 316.1236

 1.4678, 0.0000,  
6.5641

244.2472,

 0.3038, 0.0000,

170.9114, 376.9652

3.1167

293.3278,  
210.6106, 445.1516

■ 0.0000, 0.0000,  
1.1545

■ 0.0000, 0.0000,  
0.0000

■ 42.7641, 20.7647,  
81.8748

■ 42.7641, 20.7647,  
81.8748

■ 41.6465, 19.7087,  
81.7302

■ 44.2922, 22.6192,  
82.1525

■ 41.6327, 19.6966,  
81.7286

■ 46.3493, 25.5120,  
82.6025

■ 49.0088, 29.5889,  
83.2492

■ 52.3317, 34.9718,  
84.1131

■ 56.3714, 41.7675,  
85.2119

■ 61.1759, 50.0715,  
86.5615

■ 66.7887, 59.9712,  
88.1765

■ 73.2502, 71.5472,  
90.0703

■ 80.5982, 84.8747,  
92.2555

# Harmonies

## Analogous

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



29.8206, 20.7647, 138.8762



42.7641, 20.7647, 81.8748



49.8374, 20.7647, 29.7950

# Triad

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



42.7641, 20.7647, 81.8748



22.1074, 20.7647, 0.0000



5.8683, 20.7647, 57.9757

# Complementary

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



42.7641, 20.7647, 81.8748



31.7164, 61.2878, 11.0229

# 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.



5.1314, 20.7647, 16.6830



42.7641, 20.7647, 81.8748



12.2280, 20.7647, 0.0000

# Square

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



42.7641, 20.7647, 81.8748



35.3340, 20.7647, 0.2653



6.9447, 20.7647, 2.2639



9.5744, 20.7647, 118.0884



# Rectangle

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



42.7641, 20.7647, 81.8748



48.8955, 20.7647, 10.7802



6.9447, 20.7647, 2.2639



5.3425, 20.7647, 40.9305

# Sweetspot

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



42.7650, 20.7656, 81.8752



73.9698, 62.1605, 102.7073



16.9095, 8.8016, 80.9287



15.3745, 12.5030, 21.8529



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.



42.7650, 20.7656, 81.8752



49.1235, 23.2390, 96.5042



41.5018, 21.1582, 34.6541



15.5307, 15.2188, 19.0412



22.8030, 10.7913, 44.6240



1.8399, 0.8728, 3.5064



# Inverse Universe

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



35.8066, 18.8802, 4.6639



41.4734, 21.3534, 3.1593



33.0649, 61.7244, 22.7697



15.1374, 15.0828, 16.0087



19.2055, 9.8849, 1.6174



1.5317, 0.7856, 0.2514



# Previews

## White Background



This preview shows how the XYZ color 42.7641, 20.7647, 81.8748 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

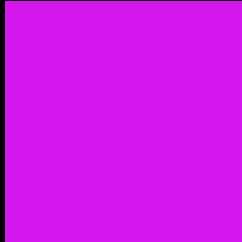
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 42.7641, 20.7647, 81.8748 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

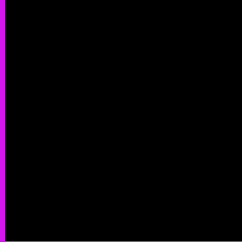
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 42.7641, 20.7647, 81.8748**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.7641, 20.7647, 81.8748.



This preview shows how white text looks on a background with the XYZ color 42.7641, 20.7647,

81.8748.

# 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

42.7641, 20.7647, 81.8748

### Protanopia

25.4104, 21.3457, 97.3886

### Deuteranopia

21.9135, 21.2172, 72.7524



## Tritanopia

28.9468, 20.7261, 14.7868

# Trichromacy



## Original Color

42.7641, 20.7647, 81.8748



## Protanomaly

24.7853, 15.7600, 90.5426



## Deuteranomaly

23.2533, 15.7973, 75.2224



## Tritanomaly

31.7205, 18.8758, 30.8257

# Monochromacy



## Original Color

42.7641, 20.7647, 81.8748



## Achromatopsia

13.4271, 14.1263, 15.3836



## Achromatomaly

19.8358, 13.3981, 31.6776

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.7641, 20.7647, 81.8748 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(212, 24, 237)` looks like.

```
.text, #text, p{  
    color:rgb(212, 24, 237)  
}
```

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(212, 24, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(212, 24, 237) }
```

## Border

The CSS property to change the border of an element to XYZ 42.7641, 20.7647, 81.8748 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(212, 24, 237) }
```



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

```
.border{ border-color:rgb(212, 24, 237) }
```

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

Here you see how a box with a 4 pixel rgb(212, 24, 237) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(212, 24, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(212, 24, 237);  
box-shadow:4px 4px 4px 4px rgb(212, 24,  
237) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.7641, 20.7647, 81.8748 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(212, 24, 237) }
```

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

```
.background{ background-color: rgb(212, 24,  
237) }
```

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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