

# Converting Colors

XYZ(42.2865, 20.7484, 68.7939)

Have a look what the booklet for  
XYZ(42.2865, 20.7484, 68.7939)  
contains.

<b>XYZ(42.2865, 20.7484, 68.7939)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(42.2865, 20.7484,  
68.7939)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DB16DB
RGB	219, 22, 219
RGB Percent	86%, 9%, 86%
CMY	0.1412, 0.9136, 0.1412
CMYK	0.00, 0.90, 0.00, 0.14
HSL	300°, 82%, 47%
HSV	300°, 90%, 86%
XYZ	42.2865, 20.7484, 68.7939
YIQ	103.3610, 54.1750, 103.0310

# Conversions

## Conversions Part 2

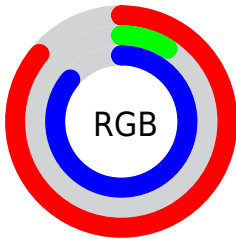
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	219, 22, 219
Decimal	14358235
CIE <sub>Lab</sub>	52.67, 85.70, -53.22
CIE <sub>LCh</sub>	53, 100.876, 328.161
Yxy	20.7484, 0.3208, 0.1574
Android (android.graphics.Color)	4292548315 (0xFFDB16DB)
YUV	103.3610, 57.0100, 101.4154
Hunter-Lab	45.5504, 85.9964, -57.6592

# Details

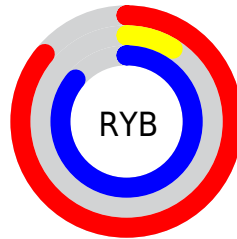
The XYZ color **42.2865, 20.7484, 68.7939** is a light color, and the websafe version is hex **CC00CC**. The color can be described as light washed magenta. A complement of this color would be **25.8082, 50.8925, 9.2231**, and the grayscale version is **12.8345, 13.5029, 14.7046**.

A 20% lighter version of the original color is **64.0414, 37.9827, 98.5638**, and **20.9089, 10.0153, 35.4814** is the 20% darker color. If you saturate the color by 10%, you get **42.0013, 20.1774, 68.6989**, and if you desaturate by 10%, it is **42.8978, 21.9702, 68.9979**.

# Distribution



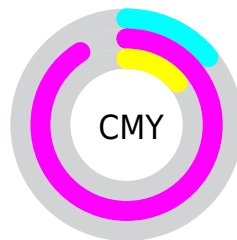
- Red (86%)
- Green (9%)
- Blue (86%)



- Red (86%)
- Yellow (9%)
- Blue (86%)



- Cyan (0%)
- Magenta (90%)
- Yellow (0%)
- Black (14%)




- Cyan (14%)
- Magenta (91%)
- Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.2865, 20.7484, 68.7939 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 42.2865, 20.7484, 68.7939 by changing the saturation by 10% instead.





 42.2865, 20.7484,  
68.7939


 42.2865, 20.7484,  
68.7939


346.6407,  
255.9383, 474.9780

 29.5178, 12.9402,  
50.0732


 77.8955, 44.6684,  
119.1521


 19.6191, 7.3874,  
35.0999


 101.4665, 61.5491,  
151.6266

 12.2251, 3.7055,  
23.4557


 129.3689, 82.2226,  
189.5228

 6.9705, 1.5102,  
14.7219

 161.9682,  
107.0735, 233.2593

 3.4898, 0.2959,  
8.4800

 199.6297,  
136.4862, 283.2544

 1.4178, 0.0000,  
4.3114

242.7187,

 0.2688, 0.0000,

170.8449, 339.9269

1.7977

291.6005,  
210.5342, 403.6953

■ 0.0000, 0.0000,  
0.4264

■ 0.0000, 0.0000,  
0.0000

■ 42.2865, 20.7484,  
68.7939

■ 42.2865, 20.7484,  
68.7939

■ 42.0013, 20.1774,  
68.6989

■ 42.8978, 21.9702,  
68.9979

■ 42.0000, 20.1748,  
68.6985

■ 43.9378, 24.0503,  
69.3446

■ 45.4669, 27.1085,  
69.8544

■ 47.5352, 31.2450,  
70.5439

■ 50.1866, 36.5477,  
71.4277

■ 53.4604, 43.0954,  
72.5191

■ 57.3927, 50.9600,  
73.8299

■ 62.0167, 60.2079,  
75.3713

■ 67.3634, 70.9013,  
77.1536

# Harmonies

## Analogous

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



30.8488, 20.7484, 121.3097



42.2865, 20.7484, 68.7939



47.5156, 20.7484, 24.4954

# Triad

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



42.2865, 20.7484, 68.7939



20.3748, 20.7484, 0.0000



6.7512, 20.7484, 62.2697

# Complementary

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



42.2865, 20.7484, 68.7939



25.8082, 50.8925, 9.2231

# 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.



5.6538, 20.7484, 20.7889



42.2865, 20.7484, 68.7939



11.6536, 20.7484, 0.1315

# Square

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



42.2865, 20.7484, 68.7939



32.3835, 20.7484, 0.3578



7.0728, 20.7484, 3.7700



10.8822, 20.7484, 115.7164



# Rectangle

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



42.2865, 20.7484, 68.7939



45.7514, 20.7484, 8.9500



7.0728, 20.7484, 3.7700



6.0971, 20.7484, 45.7918

# Sweetspot

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



42.2873, 20.7494, 68.7943



76.8805, 63.6610, 102.8432



13.4050, 5.8599, 67.4433



16.0744, 12.8638, 21.8856



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.



42.2873, 20.7494, 68.7943



59.2898, 28.4799, 96.9789



32.9224, 17.0034, 19.4791



13.6144, 13.2749, 16.4969



24.9037, 11.9625, 40.7344



1.6134, 0.7750, 2.6390



# Inverse Universe

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



42.2873, 20.7494, 68.7943



59.2898, 28.4799, 96.9789



29.0845, 52.2030, 26.4756



13.6144, 13.2749, 16.4969



24.9037, 11.9625, 40.7344



1.6134, 0.7750, 2.6390



# Previews

## White Background



This preview shows how the XYZ color 42.2865, 20.7484, 68.7939 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

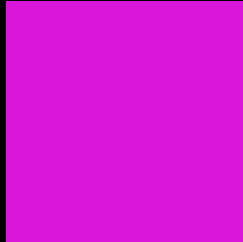
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.2865, 20.7484, 68.7939 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 42.2865, 20.7484, 68.7939**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.2865, 20.7484, 68.7939.



This preview shows how white text looks on a background with the XYZ color 42.2865, 20.7484,



# 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

42.2865, 20.7484, 68.7939

### Protanopia

25.4884, 21.3859, 97.3923

### Deuteranopia

21.7905, 21.2128, 61.3385



## Tritanopia

30.6423, 20.7489, 12.7458

# Trichromacy



## Original Color

42.2865, 20.7484, 68.7939



## Protanomaly

24.2846, 15.6078, 85.7371



## Deuteranomaly

24.3835, 16.5150, 63.5306



## Tritanomaly

33.0719, 19.2325, 26.3953

# Monochromacy



## Original Color

42.2865, 20.7484, 68.7939



## Achromatopsia

12.8919, 13.5633, 14.7705



## Achromatomaly

19.2367, 12.9616, 28.2760

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.2865, 20.7484, 68.7939 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(219, 22, 219)` looks like.

```
.text, #text, p{  
    color:rgb(219, 22, 219)  
}
```

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(219, 22, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(219, 22, 219) }
```

## Border

The CSS property to change the border of an element to XYZ 42.2865, 20.7484, 68.7939 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(219, 22, 219) }
```



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

```
.border{ border-color:rgb(219, 22, 219) }
```

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

Here you see how a box with a 4 pixel `rgb(219, 22, 219)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(219, 22, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(219, 22, 219);  
box-shadow:4px 4px 4px 4px rgb(219, 22,  
219) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.2865, 20.7484, 68.7939 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(219, 22, 219) }
```

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

```
.background{ background-color: rgb(219, 22,  
219) }
```

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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