

# Converting Colors

XYZ(42.3255, 20.8706, 64.4630)

Have a look what the booklet for  
XYZ(42.3255, 20.8706, 64.4630)  
contains.

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# Color

**XYZ(42.4214, 20.9075,  
64.7505)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DE16D5
RGB	222, 22, 213
RGB Percent	87%, 9%, 84%
CMY	0.1294, 0.9137, 0.1647
CMYK	0.00, 0.90, 0.04, 0.13
HSL	303°, 82%, 48%
HSV	303°, 90%, 87%
XYZ	42.4214, 20.9075, 64.7505
YIQ	103.5740, 57.8890, 101.8010

# Conversions

## Conversions Part 2

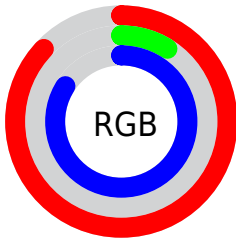
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	222, 22, 213
Decimal	14554837
CIE Lab	52.85, 85.35, -49.48
CIE LCh	53, 98.655, 329.896
Yxy	20.9075, 0.3312, 0.1632
Android (android.graphics.Color)	4292744917 (0xFFDE16D5)
YUV	103.5740, 53.9470, 103.8596
Hunter-Lab	45.7247, 85.5863, -51.9529

# Details

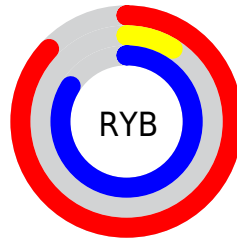
The XYZ color **42.4214, 20.9075, 64.7505** is a light color, and the websafe version is hex **CC00CC**. The color can be described as light washed magenta. A complement of this color would be **26.7006, 52.5132, 10.0265**, and the grayscale version is **12.8977, 13.5694, 14.7771**.

A 20% lighter version of the original color is **64.0414, 37.9827, 98.5638**, and **21.0718, 10.1500, 33.1963** is the 20% darker color. If you saturate the color by 10%, you get **42.0095, 20.2838, 63.9945**, and if you desaturate by 10%, it is **43.1711, 22.2026, 65.6282**.

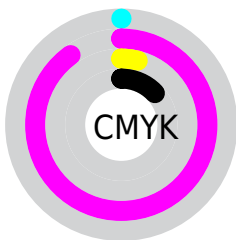
# Distribution



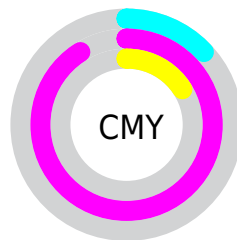
- Red (87%)
- Green (9%)
- Blue (84%)



- Red (87%)
- Yellow (9%)
- Blue (84%)



- Cyan (0%)
- Magenta (90%)
- Yellow (4%)
- Black (13%)




- Cyan (13%)
- Magenta (91%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.4214, 20.9075, 64.7505 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 42.4214, 20.9075, 64.7505 by changing the saturation by 10% instead.




 42.4214, 20.9075,  
64.7505


 42.4214, 20.9075,  
64.7505


347.1888,  
256.7865, 460.1765


 29.6239, 13.0564,  
46.8087


 78.0982, 44.9335,  
113.3009


 19.7000, 7.4674,  
32.5312


 101.7082, 61.8773,  
144.7467


 12.2841, 3.7561,  
21.4994


 129.6531, 82.6207,  
181.5308

 7.0111, 1.5381,  
13.2947

 162.2983,  
107.5481, 224.0719

 3.5154, 0.3153,  
7.4987

 200.0091,  
137.0441, 272.7884

 1.4318, 0.0000,  
3.6928

243.1509,

 0.2787, 0.0000,

171.4928, 328.0990

1.4584

292.0890,  
211.2788, 390.4222

■ 0.0000, 0.0000,  
0.1866

■ 0.0000, 0.0000,  
0.0000

■ 42.4214, 20.9075,  
64.7505

■ 42.4214, 20.9075,  
64.7505

■ 42.0095, 20.2838,  
63.9945

■ 43.1711, 22.2026,  
65.6282

■ 44.3631, 24.3817,  
66.6571

■ 46.0599, 27.5692,  
67.8582

■ 48.3135, 31.8690,  
69.2487

■ 51.1693, 37.3721,  
70.8439

■ 54.6683, 44.1601,  
72.6573

■ 58.8475, 52.3074,  
74.7013

■ 63.7415, 61.8829,  
76.9876

■ 69.3822, 72.9506,  
79.5266

# Harmonies

## Analogous

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



31.4774, 20.9075, 115.9408



42.4214, 20.9075, 64.7505



47.0095, 20.9075, 22.8680

# Triad

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



42.4214, 20.9075, 64.7505



19.9080, 20.9075, 0.0000



7.1665, 20.9075, 64.3927

# Complementary

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



42.4214, 20.9075, 64.7505



26.7006, 52.5132, 10.0265

# 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.



5.9116, 20.9075, 22.6618



42.4214, 20.9075, 64.7505



11.5401, 20.9075, 0.3908

# Square

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



42.4214, 20.9075, 64.7505



31.5622, 20.9075, 0.4033



7.1847, 20.9075, 4.5142



11.4968, 20.9075, 115.6359



# Rectangle

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



42.4214, 20.9075, 64.7505



44.9405, 20.9075, 8.3969



7.1847, 20.9075, 4.5142



6.4546, 20.9075, 48.0591

# Sweetspot

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



42.4222, 20.9085, 64.7509



76.3855, 63.4631, 100.2370



13.9701, 6.1052, 69.5504



15.9552, 12.8161, 21.2579



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.



42.4222, 20.9085, 64.7509



57.4967, 27.7627, 87.5367



33.5263, 17.3501, 17.9056



14.2670, 13.9244, 17.1761



24.9639, 12.0526, 38.0714



1.7387, 0.8388, 2.6829



# Inverse Universe

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



42.4222, 20.9085, 64.7509



57.4967, 27.7627, 87.5367



30.3939, 53.9905, 29.4756



14.2670, 13.9244, 17.1761



24.9639, 12.0526, 38.0714



1.7387, 0.8388, 2.6829



# Previews

## White Background



This preview shows how the XYZ color 42.4214, 20.9075, 64.7505 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

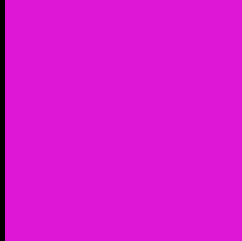
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.4214, 20.9075, 64.7505 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

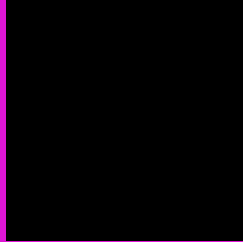
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 42.4214, 20.9075, 64.7505**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.4214, 20.9075, 64.7505.



This preview shows how white text looks on a background with the XYZ color 42.4214, 20.9075,



# 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

42.4214, 20.9075, 64.7505

### Protanopia

25.7286, 21.6930, 97.4389

### Deuteranopia

21.8525, 21.3273, 57.6084



## Tritanopia

31.4313, 20.8076, 12.2572

# Trichromacy



## Original Color

42.4214, 20.9075, 64.7505



## Protanomaly

24.4228, 15.7135, 84.1839



## Deuteranomaly

24.5835, 16.7034, 59.6860



## Tritanomaly

33.8274, 19.4907, 24.9008

# Monochromacy



## Original Color

42.4214, 20.9075, 64.7505



## Achromatopsia

13.1579, 13.8432, 15.0752



## Achromatomaly

19.5154, 13.1142, 27.8883

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.4214, 20.9075, 64.7505 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(222, 22, 213)` looks like.

```
.text, #text, p{  
    color:rgb(222, 22, 213)  
}
```

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(222, 22, 213) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 22, 213) }
```

## Border

The CSS property to change the border of an element to XYZ 42.4214, 20.9075, 64.7505 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(222, 22, 213) }
```



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

```
.border{ border-color:rgb(222, 22, 213) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 22, 213)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 22, 213); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 22, 213);  
box-shadow:4px 4px 4px 4px rgb(222, 22,  
213) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.4214, 20.9075, 64.7505 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 22, 213) }
```

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

```
.background{ background-color: rgb(222, 22,  
213) }
```

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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