

# Converting Colors

XYZ(42.1320, 22.4834, 59.4976)

Have a look what the booklet for  
XYZ(42.1320, 22.4834, 59.4976)  
contains.

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# Color

**XYZ(42.0841, 22.4642,  
59.2447)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DD37CC
RGB	221, 55, 204
RGB Percent	87%, 22%, 80%
CMY	0.1333, 0.7843, 0.2000
CMYK	0.00, 0.75, 0.08, 0.13
HSL	306°, 71%, 54%
HSV	306°, 75%, 87%
XYZ	42.0841, 22.4642, 59.2447
YIQ	121.6200, 51.1070, 81.5310

# Conversions

## Conversions Part 2

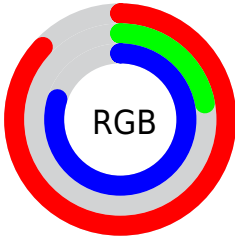
Format	Color
R <sub>YB</sub>	221, 55, 204
Decimal	14497740
CIE Lab	54.52, 77.14, -41.70
CIE LCh	55, 87.692, 331.608
Yxy	22.4642, 0.3400, 0.1815
Android (android.graphics.Color)	4292687820 (0xFFDD37CC)
YUV	121.6200, 40.6133, 87.1563
Hunter-Lab	47.3964, 75.5495, -40.9340

# Details

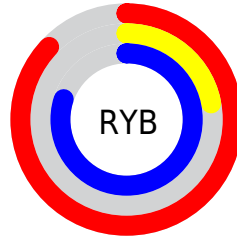
The XYZ color **42.0841, 22.4642, 59.2447** is a light color, and the websafe version is hex **CC33CC**. The color can be described as light muted magenta. A complement of this color would be **28.6029, 52.9940, 14.8540**, and the grayscale version is **18.2371, 19.1869, 20.8945**.

A 20% lighter version of the original color is **65.8868, 41.6737, 99.1789**, and **20.3251, 9.8513, 29.2640** is the 20% darker color. If you saturate the color by 10%, you get **40.9900, 20.7068, 57.5504**, and if you desaturate by 10%, it is **43.6534, 25.1645, 61.1172**.

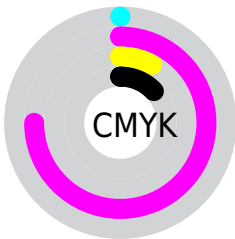
# Distribution



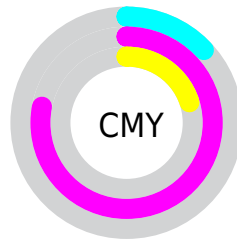
- Red (87%)
- Green (22%)
- Blue (80%)



- Red (87%)
- Yellow (22%)
- Blue (80%)



- Cyan (0%)
- Magenta (75%)
- Yellow (8%)
- Black (13%)



- Cyan (13%)
- Magenta (78%)
- Yellow (20%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.0841, 22.4642, 59.2447 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 42.0841, 22.4642, 59.2447 by changing the saturation by 10% instead.



42.0841, 22.4642,  
59.2447

42.0841, 22.4642,  
59.2447

345.8171,  
264.9609, 439.5352

29.3585, 14.1984,  
42.3888

77.5913, 47.5120,  
105.2658

19.4979, 8.2588,  
29.0780

101.1036, 65.0628,  
135.2682

12.1367, 4.2610,  
18.8938

128.9422, 86.4774,  
170.4898

6.9097, 1.8206,  
11.4175

161.4724,  
112.1402, 211.3492

3.4515, 0.5000,  
6.2307

199.0597,  
142.4355, 258.2648

1.3968, 0.0000,  
2.9148

242.0694,

0.2539, 0.0000,

177.7478, 311.6554

1.0513

290.8667,  
218.4615, 371.9393

■ 0.0000, 0.0000,  
0.0000

■ 42.0841, 22.4642,  
59.2447

■ 42.0841, 22.4642,  
59.2447

■ 40.9900, 20.7068,  
57.5504

■ 43.6534, 25.1645,  
61.1172

■ 40.3005, 19.7529,  
56.0101


■ 45.7511, 28.9159,  
63.1853


■ 40.0545, 19.4665,  
55.2942


■ 48.4259, 33.8152,  
65.4653


■ 51.7204, 39.9475,  
67.9716

■ 55.6731, 47.3897,  
70.7171

 60.3194, 56.2126,  
73.7137

 65.6920, 66.4817,  
76.9723

 71.8218, 78.2587,  
80.5033

 78.7376, 91.6013,  
84.3165

# Harmonies

## Analogous

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



32.5754, 22.4642, 102.8925



42.0841, 22.4642, 59.2447



45.6642, 22.4642, 23.0048

# Triad

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



42.0841, 22.4642, 59.2447



20.8373, 22.4642, 0.4430



9.1631, 22.4642, 64.0050

# Complementary

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



42.0841, 22.4642, 59.2447



28.6029, 52.9940, 14.8540

# 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.



7.6939, 22.4642, 25.9747



42.0841, 22.4642, 59.2447



13.0568, 22.4642, 1.4037

# Square

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



42.0841, 22.4642, 59.2447



31.3997, 22.4642, 1.1942



8.8713, 22.4642, 6.9376



13.7144, 22.4642, 106.8103



# Rectangle

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



42.0841, 22.4642, 59.2447



43.5539, 22.4642, 9.6881



8.8713, 22.4642, 6.9376



8.3665, 22.4642, 49.5846

# Sweetspot

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



42.0849, 22.4653, 59.2451



78.1568, 67.7371, 98.5722



17.0614, 9.3165, 69.3065



16.2651, 13.6215, 20.7889



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.



42.0849, 22.4653, 59.2451



56.0922, 27.7744, 78.3728



34.6620, 19.4961, 20.1563



13.5539, 13.2507, 16.1781



23.2925, 11.3180, 32.2501



1.5259, 0.7400, 2.1785



# Inverse Universe

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



42.0849, 22.4653, 59.2451



56.0922, 27.7744, 78.3728



33.3161, 54.8793, 39.6733



13.5539, 13.2507, 16.1781



23.2925, 11.3180, 32.2501



1.5259, 0.7400, 2.1785



# Previews

## White Background



This preview shows how the XYZ color 42.0841, 22.4642, 59.2447 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

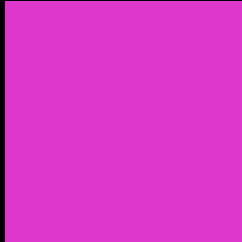
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 42.0841, 22.4642, 59.2447 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 42.0841, 22.4642, 59.2447**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.0841, 22.4642, 59.2447.



This preview shows how white text looks on a background with the XYZ color 42.0841, 22.4642,



# 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

42.0841, 22.4642, 59.2447

### Protanopia

27.1076, 23.1556, 97.6485

### Deuteranopia

23.3172, 22.7586, 53.6160



## Tritanopia

32.6576, 22.2568, 14.3791

# Trichromacy



## Original Color

42.0841, 22.4642, 59.2447



## Protanomaly

26.7334, 18.9409, 81.6038



## Deuteranomaly

26.9609, 19.9348, 55.2501



## Tritanomaly

35.0429, 21.6942, 26.0074

# Monochromacy



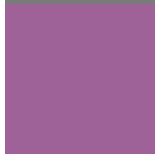
## Original Color

42.0841, 22.4642, 59.2447



## Achromatopsia

18.4984, 19.4618, 21.1939



## Achromatomaly

24.1357, 18.2715, 31.9604

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.0841, 22.4642, 59.2447 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(221, 55, 204)` looks like.

```
.text, #text, p{  
    color:rgb(221, 55, 204)  
}
```

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(221, 55, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 55, 204) }
```

## Border

The CSS property to change the border of an element to XYZ 42.0841, 22.4642, 59.2447 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(221, 55, 204) }
```



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

```
.border{ border-color:rgb(221, 55, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 55, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 55, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 55, 204);  
box-shadow:4px 4px 4px 4px rgb(221, 55,  
204) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.0841, 22.4642, 59.2447 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 55, 204) }
```

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

```
.background{ background-color: rgb(221, 55,  
204) }
```

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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