

# Converting Colors

XYZ(32.9129, 18.8723, 12.2504)

Have a look what the booklet for  
XYZ(32.9129, 18.8723, 12.2504)  
contains.

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# Color

**XYZ(32.9052, 18.8343,  
12.2570)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DC385D
RGB	220, 56, 93
RGB Percent	86%, 22%, 36%
CMY	0.1373, 0.7803, 0.6353
CMYK	0.00, 0.75, 0.58, 0.14
HSL	346°, 70%, 54%
HSV	346°, 75%, 86%
XYZ	32.9052, 18.8343, 12.2570
YIQ	109.2540, 85.8670, 46.2750

# Conversions

## Conversions Part 2

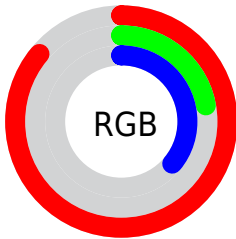
Format	Color
<a href="#">RYB</a>	<a href="#">220, 56, 93</a>
Decimal	<a href="#">14432349</a>
CIELab	<a href="#">50.49, 64.48, 18.07</a>
CIELCh	<a href="#">50, 66.963, 15.659</a>
Yxy	<a href="#">18.8343, 0.5142, 0.2943</a>
Android (android.graphics.Color)	<a href="#">4292622429</a> ( <a href="#">0xFFDC385D</a> )
YUV	<a href="#">109.2540, -8.0132, 97.1242</a>
Hunter-Lab	<a href="#">43.3985, 59.3932, 13.6337</a>

# Details

The XYZ color **32.9052, 18.8343, 12.2570** is a dark color, and the websafe version is hex **CC3366**. The color can be described as dark muted red. A complement of this color would be **35.7731, 55.4467, 53.6226**, and the grayscale version is **14.6143, 15.3753, 16.7437**.

A 20% lighter version of the original color is **52.4433, 35.7340, 30.1199**, and **14.6341, 7.4825, 3.4693** is the 20% darker color. If you saturate the color by 10%, you get **31.3907, 16.8816, 8.4347**, and if you desaturate by 10%, it is **35.0569, 21.7926, 17.1214**.

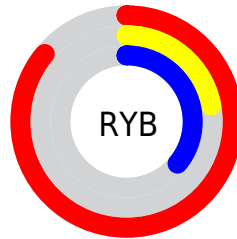
# Distribution



Red (86%)

Green (22%)

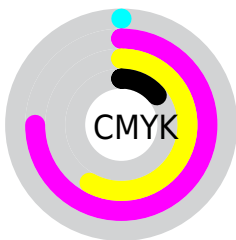
Blue (36%)



Red (86%)

Yellow (22%)

Blue (36%)

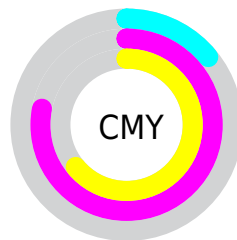


Cyan (0%)

Magenta (75%)

Yellow (58%)

Black (14%)



Cyan (14%)

Magenta (78%)


Yellow (64%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.9052, 18.8343, 12.2570 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 32.9052, 18.8343, 12.2570 by changing the saturation by 10% instead.




 32.9052, 18.8343,  
12.2570


 32.9052, 18.8343,  
12.2570


306.8949,  
245.5325, 217.1373

 22.2127, 11.5506,  
6.7943


 63.5832, 41.4539,  
30.6337

 14.1308, 6.4385,  
3.2573


 84.2994, 57.5586,  
44.3848


 8.2940, 3.1135,  
1.2275


 109.0875, 77.3725,  
61.7357

 4.3370, 1.1913,  
0.0012

 138.3129,  
101.2798, 83.1050

 1.8945, 0.0546,  
0.0000

 172.3411,  
129.6651, 108.9113

 0.5736, 0.0000,  
0.0000

211.5372,

 0.0000, 0.0000,

162.9127, 139.5731

0.0000

256.2667,  
201.4071, 175.5089

■ 32.9052, 18.8343,  
12.2570

■ 32.9052, 18.8343,  
12.2570

■ 31.3907, 16.8816,  
8.4347

■ 35.0569, 21.7926,  
17.1214

■ 30.4342, 15.7938,  
5.5719


■ 37.9091, 25.8664,  
23.0993


■ 30.0827, 15.4426,  
4.3703


■ 41.5188, 31.1546,  
30.2562


■ 45.9365, 37.7442,  
38.6524

■ 51.2083, 45.7142,  
48.3438

 57.3768, 55.1373,  
59.3827

 64.4816, 66.0813,  
71.8188

 72.5600, 78.6093,  
85.6989

 81.6473, 92.7812,  
101.0678

# Harmonies

## Analogous

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



33.0174, 18.8343, 30.7584



32.9052, 18.8343, 12.2570



28.1814, 18.8343, 4.0481

# Triad

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



32.9052, 18.8343, 12.2570



10.3436, 18.8343, 4.2494



14.9698, 18.8343, 78.7413

# Complementary

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



32.9052, 18.8343, 12.2570



35.7731, 55.4467, 53.6226

# 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.



10.4857, 18.8343, 58.4390



32.9052, 18.8343, 12.2570



8.2890, 18.8343, 12.8319

# Square

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



32.9052, 18.8343, 12.2570



14.7239, 18.8343, 1.7182



8.3338, 18.8343, 31.8159



21.5061, 18.8343, 78.2182



# Rectangle

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



32.9052, 18.8343, 12.2570



23.5872, 18.8343, 2.0996



8.3338, 18.8343, 31.8159



13.2117, 18.8343, 73.7630

# Sweetspot

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



32.9057, 18.8354, 12.2573



73.4679, 66.7918, 71.0126



33.5620, 17.9097, 69.3980



15.2507, 13.5742, 14.3418



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.



32.9057, 18.8354, 12.2573



43.0765, 22.6609, 9.5467



34.7617, 24.5661, 6.6525



13.1757, 13.0994, 14.1866



17.6902, 9.0771, 2.7489



1.1789, 0.6012, 0.3512



# Inverse Universe

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



32.9057, 18.8354, 12.2573



43.0765, 22.6609, 9.5467



30.1280, 37.1649, 73.2956



13.1757, 13.0994, 14.1866



17.6902, 9.0771, 2.7489

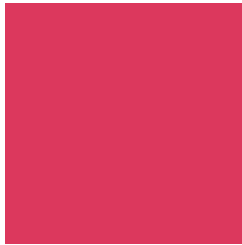


1.1789, 0.6012, 0.3512



# Previews

## White Background



This preview shows how the XYZ color 32.9052, 18.8343, 12.2570 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 32.9052, 18.8343, 12.2570 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 32.9052, 18.8343, 12.2570**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.9052, 18.8343, 12.2570.



This preview shows how white text looks on a background with the XYZ color 32.9052, 18.8343,



# 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

32.9052, 18.8343, 12.2570

### Protanopia

18.3177, 19.0006, 21.4409

### Deuteranopia

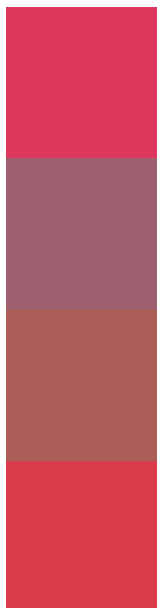
19.3867, 19.0760, 11.2546



## Tritanopia

31.8902, 18.8870, 6.9658

# Trichromacy



## Original Color

32.9052, 18.8343, 12.2570

## Protanomaly

21.2999, 16.9883, 17.4857

## Deuteranomaly

22.7774, 17.4806, 11.4061

## Tritanomaly

32.0993, 18.7998, 8.5935

# Monochromacy



## Original Color

32.9052, 18.8343, 12.2570

## Achromatopsia

14.5356, 15.2926, 16.6537

## Achromatomaly

18.4988, 14.6812, 14.6907

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.9052, 18.8343, 12.2570 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(220, 56, 93)` looks like.

```
.text, #text, p{  
    color:rgb(220, 56, 93)  
}
```

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(220, 56, 93) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 56, 93) }
```

## Border

The CSS property to change the border of an element to XYZ 32.9052, 18.8343, 12.2570 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(220, 56, 93) }
```



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

```
.border{ border-color:rgb(220, 56, 93) }
```

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

Here you see how a box with a 4 pixel rgb(220, 56, 93) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 56, 93); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 56, 93);  
box-shadow:4px 4px 4px 4px rgb(220, 56,  
93) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.9052, 18.8343, 12.2570 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 56, 93) }
```

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

```
.background{ background-color: rgb(220, 56,  
93) }
```

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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