

# Converting Colors

XYZ(32.7975, 20.2701, 32.8493)

Have a look what the booklet for  
XYZ(32.7975, 20.2701, 32.8493)  
contains.

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# Color

**XYZ(32.9142, 20.3384,  
32.7628)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CA4E9A
RGB	202, 78, 154
RGB Percent	79%, 31%, 60%
CMY	0.2078, 0.6941, 0.3961
CMYK	0.00, 0.61, 0.24, 0.21
HSL	323°, 54%, 55%
HSV	323°, 61%, 79%
XYZ	32.9142, 20.3384, 32.7628
YIQ	123.7400, 49.5080, 49.9240

# Conversions

## Conversions Part 2

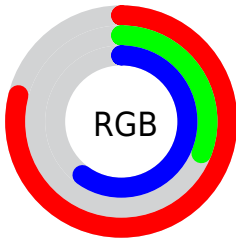
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	202, 78, 154
Decimal	13258394
CIE <sub>Lab</sub>	52.22, 57.08, -16.40
CIE <sub>LCh</sub>	52, 59.386, 343.965
Yxy	20.3384, 0.3827, 0.2365
Android (android.graphics.Color)	4291448474 (0xFFCA4E9A)
YUV	123.7400, 14.9182, 68.6340
Hunter-Lab	45.0981, 51.3539, -11.5042

# Details

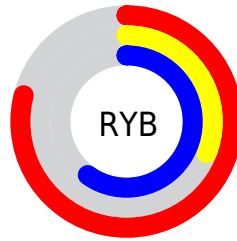
The XYZ color **32.9142, 20.3384, 32.7628** is a dark color, and the websafe version is hex **CC3399**. The color can be described as middle muted rose. A complement of this color would be **28.0293, 45.3677, 27.0203**, and the grayscale version is **19.0130, 20.0032, 21.7835**.

A 20% lighter version of the original color is **61.0127, 42.5891, 64.6793**, and **14.0695, 7.1479, 13.4701** is the 20% darker color. If you saturate the color by 10%, you get **31.0629, 17.6442, 29.0364**, and if you desaturate by 10%, it is **35.2498, 23.9329, 36.8604**.

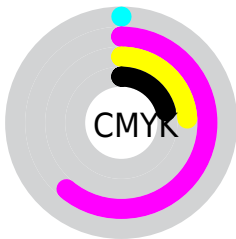
# Distribution



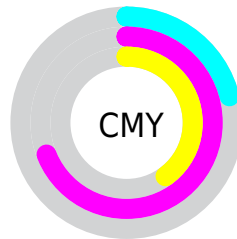
- Red (79%)
- Green (31%)
- Blue (60%)



- Red (79%)
- Yellow (31%)
- Blue (60%)



- Cyan (0%)
- Magenta (61%)
- Yellow (24%)
- Black (21%)




- Cyan (21%)
- Magenta (69%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.9142, 20.3384, 32.7628 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 32.9142, 20.3384, 32.7628 by changing the saturation by 10% instead.




 32.9142, 20.3384,  
32.7628


 32.9142, 20.3384,  
32.7628

306.9348,  
253.7412, 329.1787


 22.2196, 12.6413,  
21.6752


 63.5971, 43.9838,  
65.1168

 14.1359, 7.1820,  
13.4224


 84.3162, 60.7009,  
87.2202


 8.2976, 3.5762,  
7.5859


 109.1075, 81.1934,  
113.8326

 4.3393, 1.4394,  
3.7472

 138.3364,  
105.8457, 145.3726

 1.8958, 0.2455,  
1.4877

 172.3682,  
135.0423, 182.2586

 0.5744, 0.0000,  
0.2087

211.5683,

 0.0000, 0.0000,

169.1674, 224.9093

0.0000

256.3020,  
208.6056, 273.7432

■ 32.9142, 20.3384,  
32.7628

■ 32.9142, 20.3384,  
32.7628

■ 31.0629, 17.6442,  
29.0364

■ 35.2498, 23.9329,  
36.8604

■ 29.6514, 15.7632,  
25.6619

■ 38.1053, 28.4981,  
41.3442

■ 28.6297, 14.5965,  
22.6186

■ 41.5147, 34.1008,  
46.2297

■ 27.9828, 14.0068,  
20.2323

■ 45.5086, 40.8010,  
51.5306

■ 50.1153, 48.6542,  
57.2599

■ 55.3613, 57.7119,  
63.4300

■ 61.2712, 68.0227,  
70.0524

■ 67.8686, 79.6323,  
77.1383

■ 73.6231, 89.4789,  
84.1809

# Harmonies

## Analogous

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



28.6554, 20.3384, 56.1254



32.9142, 20.3384, 32.7628



33.0706, 20.3384, 14.9962

# Triad

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



32.9142, 20.3384, 32.7628



16.6400, 20.3384, 2.9378



12.0669, 20.3384, 54.5479

# Complementary

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



32.9142, 20.3384, 32.7628



28.0293, 45.3677, 27.0203

# 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.



10.0469, 20.3384, 31.2667



32.9142, 20.3384, 32.7628



12.2867, 20.3384, 5.7128

# Square

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



32.9142, 20.3384, 32.7628



22.7501, 20.3384, 3.0202



10.1179, 20.3384, 14.1118



16.2729, 20.3384, 72.5584



# Rectangle

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



32.9142, 20.3384, 32.7628



30.7631, 20.3384, 8.1939



10.1179, 20.3384, 14.1118



11.1533, 20.3384, 46.6690

# Sweetspot

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



32.9148, 20.3394, 32.7632



79.3849, 73.0380, 90.2119



21.9217, 14.1145, 57.4462



16.5215, 14.8356, 18.7121



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.



32.9148, 20.3394, 32.7632



51.6443, 28.5670, 47.0217



29.0345, 18.7873, 12.3299



11.4964, 11.3273, 13.1485



18.0513, 9.0311, 13.2547



0.9677, 0.4805, 0.8758



# Inverse Universe

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



32.9148, 20.3394, 32.7632



51.6443, 28.5670, 47.0217



33.2900, 47.4719, 54.7226



11.4964, 11.3273, 13.1485



18.0513, 9.0311, 13.2547



0.9677, 0.4805, 0.8758



# Previews

## White Background



This preview shows how the XYZ color 32.9142, 20.3384, 32.7628 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

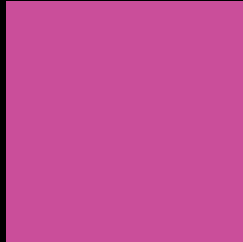
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 32.9142, 20.3384, 32.7628 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

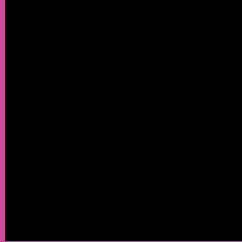
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 32.9142, 20.3384, 32.7628**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.9142, 20.3384, 32.7628.



This preview shows how white text looks on a background with the XYZ color 32.9142, 20.3384,

32.7628.

# 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

32.9142, 20.3384, 32.7628

### Protanopia

21.6461, 20.6373, 49.8562

### Deuteranopia

20.8302, 20.4613, 30.4553



## Tritanopia

29.0577, 20.4065, 13.9626

# Trichromacy



## Original Color

32.9142, 20.3384, 32.7628



## Protanomaly

23.6430, 19.0995, 42.9979



## Deuteranomaly

23.9855, 19.3801, 31.3307



## Tritanomaly

30.2314, 20.2665, 19.4580

# Monochromacy



## Original Color

32.9142, 20.3384, 32.7628



## Achromatopsia

19.1579, 20.1556, 21.9495



## Achromatomaly

22.5798, 18.9401, 25.3874

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.9142, 20.3384, 32.7628 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(202, 78, 154)` looks like.

```
.text, #text, p{  
    color:rgb(202, 78, 154)  
}
```

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(202, 78, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 78, 154) }
```

## Border

The CSS property to change the border of an element to XYZ 32.9142, 20.3384, 32.7628 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(202, 78, 154) }
```



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

```
.border{ border-color:rgb(202, 78, 154) }
```

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

Here you see how a box with a 4 pixel rgb(202, 78, 154) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 78, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 78, 154);  
box-shadow:4px 4px 4px 4px rgb(202, 78,  
154) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.9142, 20.3384, 32.7628 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 78, 154) }
```

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

```
.background{ background-color: rgb(202, 78,  
154) }
```

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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