

# Converting Colors

XYZ(32.4031, 20.3878, 65.8906)

Have a look what the booklet for  
XYZ(32.4031, 20.3878, 65.8906)  
contains.

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# Color

**XYZ(32.3404, 20.3294,  
65.8378)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AB57D6
RGB	171, 87, 214
RGB Percent	67%, 34%, 84%
CMY	0.3294, 0.6588, 0.1608
CMYK	0.20, 0.59, 0.00, 0.16
HSL	280°, 61%, 59%
HSV	280°, 59%, 84%
XYZ	32.3404, 20.3294, 65.8378
YIQ	126.5940, 9.2970, 57.3050

# Conversions

## Conversions Part 2

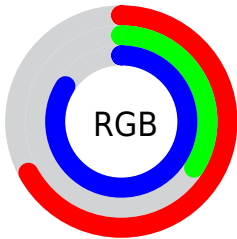
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	171, 87, 214
Decimal	11229142
CIE Lab	52.21, 55.07, -51.52
CIE LCh	52, 75.412, 316.904
Yxy	20.3294, 0.2729, 0.1715
Android (android.graphics.Color)	4289419222 (0xFFAB57D6)
YUV	126.5940, 43.0912, 38.9441
Hunter-Lab	45.0881, 49.1286, -55.0137

# Details

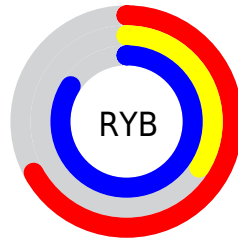
The XYZ color **32.3404, 20.3294, 65.8378** is a light color, and the websafe version is hex **CC66FF**. The color can be described as light muted purple. A complement of this color would be **34.9734, 53.5276, 17.5061**, and the grayscale version is **19.8897, 20.9255, 22.7879**.

A 20% lighter version of the original color is **59.8880, 42.9278, 99.7372**, and **13.7583, 7.1465, 33.0020** is the 20% darker color. If you saturate the color by 10%, you get **29.3225, 16.5720, 65.2720**, and if you desaturate by 10%, it is **35.9599, 25.1598, 66.5797**.

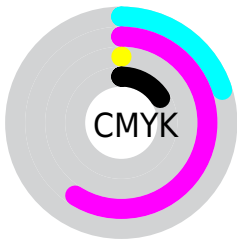
# Distribution



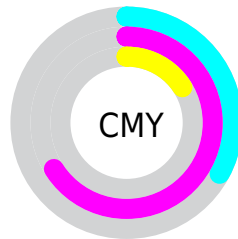
- Red (67%)
- Green (34%)
- Blue (84%)



- Red (67%)
- Yellow (34%)
- Blue (84%)



- Cyan (20%)
- Magenta (59%)
- Yellow (0%)
- Black (16%)




- Cyan (33%)
- Magenta (66%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.3404, 20.3294, 65.8378 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 32.3404, 20.3294, 65.8378 by changing the saturation by 10% instead.




 32.3404, 20.3294,  
65.8378


 32.3404, 20.3294,  
65.8378


304.3848,  
253.6928, 464.1849


 21.7784, 12.6347,  
47.6851


 62.7059, 43.9688,  
114.8783

 13.8099, 7.1775,  
33.2194


 83.2402, 60.6822,  
146.6031

 8.0694, 3.5734,  
22.0220


 107.8294, 81.1707,  
183.6891

 4.1915, 1.4379,  
13.6746

 136.8387,  
105.8187, 226.5548

 1.8111, 0.2444,  
7.7586

170.6335,  
135.0105, 275.6187

 0.5243, 0.0000,  
3.8553

209.5792,

 0.0000, 0.0000,

169.1305, 331.2993

1.5463

254.0412,  
208.5631, 394.0152

■ 0.0000, 0.0000,  
0.2521

■ 0.0000, 0.0000,  
0.0000

■ 32.3404, 20.3294,  
65.8378

■ 32.3404, 20.3294,  
65.8378

■ 29.3225, 16.5720,  
65.2720

■ 35.9599, 25.1598,  
66.5797

■ 26.8554, 13.7906,  
64.8651


■ 40.2210, 31.1439,  
67.5102


■ 24.8831, 11.8746,  
64.5993

■ 45.1629, 38.3571,  
68.6420


■ 23.3117, 10.6381,  
64.4434


■ 50.8207, 46.8677,  
69.9865


 23.2151, 10.5657,  
64.4345

 57.2268, 56.7389,  
71.5542

 64.4117, 68.0297,  
73.3549

 72.4040, 80.7956,  
75.3977

 80.2002, 93.0276,  
77.3478

 82.5603, 94.2443,  
77.4583

# Harmonies

## Analogous

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



23.9763, 20.3294, 92.9898



32.3404, 20.3294, 65.8378



37.7241, 20.3294, 33.2541

# Triad

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



32.3404, 20.3294, 65.8378



22.8912, 20.3294, 1.1712



8.3019, 20.3294, 36.9691

# Complementary

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



32.3404, 20.3294, 65.8378



34.9734, 53.5276, 17.5061

# 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.



8.1571, 20.3294, 13.8205



32.3404, 20.3294, 65.8378



15.3136, 20.3294, 1.2775

# Square

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



32.3404, 20.3294, 65.8378



31.3656, 20.3294, 3.3281



10.3718, 20.3294, 3.9265



10.8400, 20.3294, 70.0627



# Rectangle

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



32.3404, 20.3294, 65.8378



38.1614, 20.3294, 17.4011



10.3718, 20.3294, 3.9265



8.0012, 20.3294, 27.6585

# Sweetspot

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



32.3412, 20.3302, 65.8383



76.6269, 71.3008, 104.3315



24.2457, 23.2359, 66.8258



15.8396, 14.4063, 22.1958



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.



32.3412, 20.3302, 65.8383



42.6668, 23.5406, 96.9028



40.9850, 25.0511, 54.2759



12.5257, 12.4124, 15.6732



14.1470, 6.4455, 38.9516



0.9400, 0.4335, 2.3534



# Inverse Universe

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



35.1696, 22.7249, 23.6524



48.0762, 27.9072, 25.8666



30.5818, 51.1615, 21.9135



12.5950, 12.4895, 13.8076



17.5217, 8.9450, 4.7855

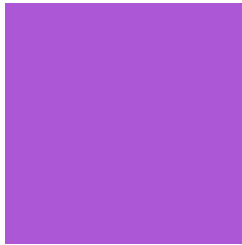


1.0949, 0.5548, 0.4893



# Previews

## White Background



This preview shows how the XYZ color 32.3404, 20.3294, 65.8378 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

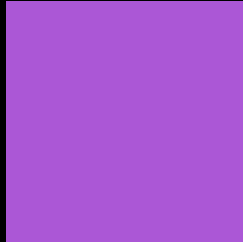
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 32.3404, 20.3294, 65.8378 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

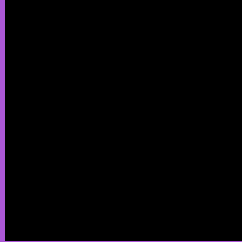
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 32.3404, 20.3294, 65.8378**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.3404, 20.3294, 65.8378.



This preview shows how white text looks on a background with the XYZ color 32.3404, 20.3294,



# 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

32.3404, 20.3294, 65.8378

### Protanopia

24.7355, 20.9443, 91.5459

### Deuteranopia

21.3219, 20.7663, 61.9160



## Tritanopia

23.2609, 20.3588, 20.7928

# Trichromacy



## Original Color

32.3404, 20.3294, 65.8378



## Protanomaly

24.7288, 19.1173, 81.7435



## Deuteranomaly

23.4904, 19.3673, 63.4729



## Tritanomaly

25.7670, 19.9486, 33.5027

# Monochromacy



## Original Color

32.3404, 20.3294, 65.8378



## Achromatopsia

20.1725, 21.2231, 23.1119



## Achromatomaly

23.3799, 19.9312, 35.4157

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.3404, 20.3294, 65.8378 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(171, 87, 214)` looks like.

```
.text, #text, p{  
    color:rgb(171, 87, 214)  
}
```

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(171, 87, 214) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 87, 214) }
```

## Border

The CSS property to change the border of an element to XYZ 32.3404, 20.3294, 65.8378 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".

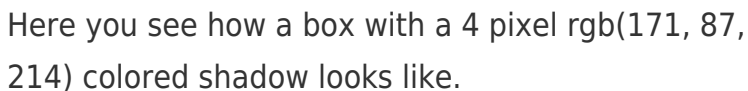
```
.border, #border, table{ border:4px solid rgb(171, 87, 214) }
```



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

```
.border{ border-color:rgb(171, 87, 214) }
```

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



Here you see how a box with a 4 pixel `rgb(171, 87, 214)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(171, 87, 214); -webkit-box-shadow:4px 4px 4px 4px rgb(171, 87, 214); box-shadow:4px 4px 4px 4px rgb(171, 87, 214) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.3404, 20.3294, 65.8378 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 87, 214) }
```

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

```
.background{ background-color: rgb(171, 87,  
214) }
```

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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