

# Converting Colors

XYZ(40.3558, 32.8328, 41.3499)

Have a look what the booklet for  
XYZ(40.3558, 32.8328, 41.3499)  
contains.

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# Color

**XYZ(40.3605, 32.8516,  
41.2596)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CB87A8
RGB	203, 135, 168
RGB Percent	80%, 53%, 66%
CMY	0.2039, 0.4706, 0.3412
CMYK	0.00, 0.33, 0.17, 0.20
HSL	331°, 40%, 66%
HSV	331°, 33%, 80%
XYZ	40.3605, 32.8516, 41.2596
YIQ	159.0940, 29.9350, 24.6790

# Conversions

## Conversions Part 2

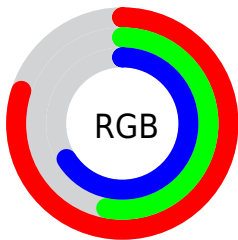
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	203, 135, 168
Decimal	13338536
CIE <sub>Lab</sub>	64.04, 30.81, -6.73
CIE <sub>LCh</sub>	64, 31.540, 347.686
Yxy	32.8516, 0.3526, 0.2870
Android (android.graphics.Color)	4291528616 (0xFFCB87A8)
YUV	159.0940, 4.3907, 38.5056
Hunter-Lab	57.3163, 25.3910, -2.5590

# Details

The XYZ color **40.3605, 32.8516, 41.2596** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **38.6047, 50.7660, 45.7967**, and the grayscale version is **32.9694, 34.6864, 37.7735**.

A 20% lighter version of the original color is **72.7569, 62.9829, 78.1342**, and **18.5355, 13.8975, 18.2286** is the 20% darker color. If you saturate the color by 10%, you get **36.8590, 27.3441, 35.4811**, and if you desaturate by 10%, it is **44.4822, 39.4734, 47.6315**.

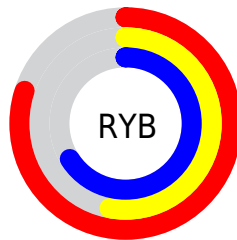
# Distribution



Red (80%)

Green (53%)

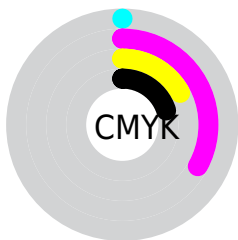
Blue (66%)



Red (80%)

Yellow (53%)

Blue (66%)

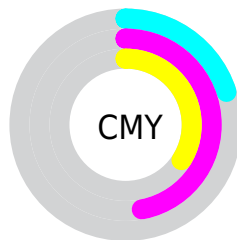


Cyan (0%)

Magenta (33%)

Yellow (17%)

Black (20%)



Cyan (20%)

Magenta (47%)


Yellow (34%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.3605, 32.8516, 41.2596 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 40.3605, 32.8516, 41.2596 by changing the saturation by 10% instead.





 40.3605, 32.8516,  
41.2596


 40.3605, 32.8516,  
41.2596

338.7491,  
314.9805, 367.1132


 28.0052, 22.0128,  
28.2008


 74.9930, 64.1438,  
78.3358

 18.4700, 13.8663,  
18.2367


 98.0009, 85.3659,  
103.1902

 11.3897, 8.0277,  
10.9489


 125.2904,  
110.8180, 132.8135

 6.3988, 4.1127,  
5.9187

157.2269,  
140.8843, 167.6243

 3.1320, 1.7368,  
2.7277

194.1756,  
175.9493, 208.0412

 1.2240, 0.4473,  
0.9573

236.5020,

 0.1252, 0.0000,

216.3974, 254.4826

0.0000

284.5714,  
262.6130, 307.3670

■ 0.0000, 0.0000,  
0.0000

■ 40.3605, 32.8516,  
41.2596

■ 40.3605, 32.8516,  
41.2596

■ 36.8590, 27.3441,  
35.4811

■ 44.4822, 39.4734,  
47.6315

■ 33.9421, 22.8840,  
30.2741

■ 49.2512, 47.2624,  
54.6135

■ 31.5751, 19.4044,  
25.6180


■ 54.6967, 56.2734,  
62.2242


■ 29.7180, 16.8284,  
21.4898

■ 60.8449, 66.5566,  
70.4805


■ 28.3250, 15.0678,  
17.8639


■ 67.7209, 78.1593,  
79.3986


 27.3409, 14.0160,  
14.7116

 74.7697, 89.9690,  
88.8013

 26.8576, 13.5881,  
12.8890

 76.2877, 90.5762,  
96.7949

 77.8952, 91.2192,  
105.2602

 78.4388, 91.4366,  
108.1226

# Harmonies

## Analogous

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



37.9946, 32.8516, 54.9508



40.3605, 32.8516, 41.2596



40.1145, 32.8516, 28.8245

# Triad

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



40.3605, 32.8516, 41.2596



28.6945, 32.8516, 17.1222



25.8070, 32.8516, 57.1430

# Complementary

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



40.3605, 32.8516, 41.2596



38.6047, 50.7660, 45.7967

# 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.



23.7556, 32.8516, 43.7497



40.3605, 32.8516, 41.2596



25.3105, 32.8516, 21.6693

# Square

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



40.3605, 32.8516, 41.2596



33.0867, 32.8516, 16.7608



23.5829, 32.8516, 30.7899



29.4334, 32.8516, 65.4794



# Rectangle

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



40.3605, 32.8516, 41.2596



38.5036, 32.8516, 22.7740



23.5829, 32.8516, 30.7899



24.9259, 32.8516, 52.9552

# Sweetspot

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



40.3615, 32.8531, 41.2603



85.4060, 83.9790, 95.6136



35.8070, 30.0765, 60.4185



18.0107, 17.5300, 20.0844



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.



40.3615, 32.8531, 41.2603



63.3509, 48.3303, 62.1759



37.6670, 31.7753, 27.0715



11.4353, 11.3029, 12.8271



17.1375, 8.6656, 8.4429



0.9224, 0.4624, 0.6373



# Inverse Universe

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



40.3615, 32.8531, 41.2603



63.3509, 48.3303, 62.1759



42.1282, 52.1754, 64.3509



11.4353, 11.3029, 12.8271



17.1375, 8.6656, 8.4429

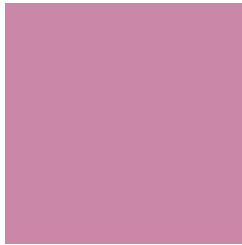


0.9224, 0.4624, 0.6373



# Previews

## White Background



This preview shows how the XYZ color 40.3605, 32.8516, 41.2596 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

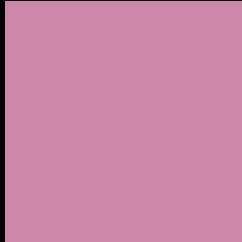
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.3605, 32.8516, 41.2596 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

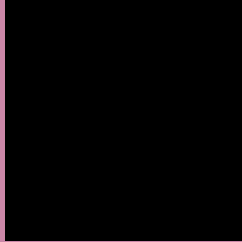
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 40.3605, 32.8516, 41.2596**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.3605, 32.8516, 41.2596.



This preview shows how white text looks on a background with the XYZ color 40.3605, 32.8516,



# 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

40.3605, 32.8516, 41.2596

### Protanopia

32.5563, 32.9858, 47.8310

### Deuteranopia

33.5840, 32.9568, 40.1885



## Tritanopia

38.6007, 32.7644, 32.7235

# Trichromacy



## Original Color

40.3605, 32.8516, 41.2596

## Protanomaly

34.8478, 32.5481, 45.5200

## Deuteranomaly

35.5987, 32.5877, 40.4902

## Tritanomaly

39.3035, 32.8482, 35.7213

# Monochromacy



## Original Color

40.3605, 32.8516, 41.2596

## Achromatopsia

32.9542, 34.6704, 37.7561

## Achromatomaly

35.1071, 33.5353, 38.8050

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.3605, 32.8516, 41.2596 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(203, 135, 168)` looks like.

```
.text, #text, p{  
    color:rgb(203, 135, 168)  
}
```

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(203, 135, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 135, 168) }
```

## Border

The CSS property to change the border of an element to XYZ 40.3605, 32.8516, 41.2596 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(203, 135, 168) }
```



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

```
.border{ border-color:rgb(203, 135, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 135, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 135, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 135, 168);  
box-shadow:4px 4px 4px 4px rgb(203, 135,  
168) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.3605, 32.8516, 41.2596 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 135, 168) }
```

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

```
.background{ background-color: rgb(203,  
135, 168) }
```

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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