

# Converting Colors

XYZ(32.3315, 15.6504, 47.4665)

Have a look what the booklet for  
XYZ(32.3315, 15.6504, 47.4665)  
contains.

<b>XYZ(32.3101, 15.6449, 47.2158)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(32.3101, 15.6449,  
47.2158)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C700B9
RGB	199, 0, 185
RGB Percent	78%, 0%, 73%
CMY	0.2196, 0.9999, 0.2745
CMYK	0.00, 1.00, 0.07, 0.22
HSL	304°, 100%, 39%
HSV	304°, 100%, 78%
XYZ	32.3101, 15.6449, 47.2158
YIQ	80.5910, 59.2190, 99.7230

# Conversions

## Conversions Part 2

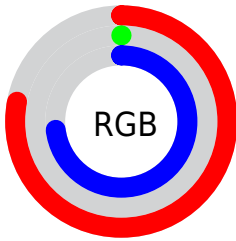
Format	Color
R <sub>Y</sub> B	199, 0, 185
Decimal	13041849
CIE Lab	46.51, 79.54, -43.61
CIE LCh	47, 90.710, 331.262
Yxy	15.6449, 0.3395, 0.1644
Android (android.graphics.Color)	4291231929 (0xFFC700B9)
YUV	80.5910, 51.4736, 103.8447
Hunter-Lab	39.5536, 76.5921, -43.0879

# Details

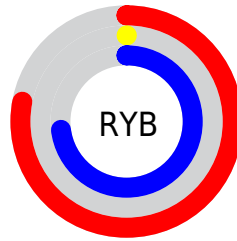
The XYZ color **32.3101, 15.6449, 47.2158** is a dark color, and the websafe version is hex **CC33CC**. The color can be described as dark washed rose. A complement of this color would be **20.5034, 40.8792, 7.2264**, and the grayscale version is **7.6381, 8.0359, 8.7511**.

A 20% lighter version of the original color is **61.0081, 35.1530, 87.5741**, and **14.9120, 7.2141, 22.0793** is the 20% darker color. If you saturate the color by 10%, you get **32.3102, 15.6449, 47.2148**, and if you desaturate by 10%, it is **32.7079, 16.2023, 48.0814**.

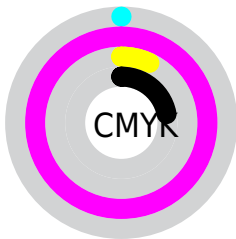
# Distribution



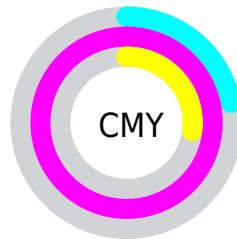
- Red (78%)
- Green (0%)
- Blue (73%)



- Red (78%)
- Yellow (0%)
- Blue (73%)



- Cyan (0%)
- Magenta (100%)
- Yellow (7%)
- Black (22%)




- Cyan (22%)
- Magenta (100%)
- Yellow (27%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.3101, 15.6449, 47.2158 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 32.3101, 15.6449, 47.2158 by changing the saturation by 10% instead.




 32.3101, 15.6449,  
47.2158


 32.3101, 15.6449,  
47.2158


304.2497,  
227.2371, 392.0939


 21.7552, 9.2732,  
32.8507


 62.6588, 35.9806,  
87.3890

 13.7927, 4.9198,  
21.7419


 83.1833, 50.7135,  
114.0342


 8.0574, 2.2003,  
13.4709

 107.7617, 69.0022,  
145.6099

 4.1838, 0.7202,  
7.6191

 136.7594, 91.2311,  
182.5345

 1.8066, 0.0000,  
3.7679

 170.5417,  
117.7847, 225.2267

 0.5217, 0.0000,  
1.4989

 209.4739,

 0.0000, 0.0000,

149.0473, 274.1050

0.2171

253.9215,  
185.4033, 329.5879

■ 0.0000, 0.0000,  
0.0000

■ 32.3101, 15.6449,  
47.2158

■ 32.3101, 15.6449,  
47.2158

■ 32.3102, 15.6449,  
47.2148

■ 32.7079, 16.2023,  
48.0814

■ 33.3621, 17.2706,  
49.0397

■ 34.3623, 19.0286,  
50.1204

■ 35.7552, 21.5696,  
51.3394

■ 37.5802, 24.9725,  
52.7096

■ 39.8721, 29.3067,  
54.2427

■ 42.6619, 34.6344,  
55.9491

■ 45.9780, 41.0125,  
57.8383

■ 49.8469, 48.4936,  
59.9191

# Harmonies

## Analogous

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



24.1057, 15.6449, 86.6050



32.3101, 15.6449, 47.2158



35.5076, 15.6449, 16.1048

# Triad

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



32.3101, 15.6449, 47.2158



14.5417, 15.6449, 0.0000



5.3717, 15.6449, 50.5279

# Complementary

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



32.3101, 15.6449, 47.2158



20.5034, 40.8792, 7.2264

# 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.



4.3414, 15.6449, 17.9996



32.3101, 15.6449, 47.2158



8.3581, 15.6449, 0.1847

# Square

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



32.3101, 15.6449, 47.2158



23.3237, 15.6449, 0.0451



5.2057, 15.6449, 3.5936



8.7544, 15.6449, 89.4361



# Rectangle

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



32.3101, 15.6449, 47.2158



33.7186, 15.6449, 5.7128



5.2057, 15.6449, 3.5936



4.8053, 15.6449, 37.8789

# Sweetspot

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



32.3107, 15.6457, 47.2161



74.4554, 60.1783, 97.8194



10.4796, 4.2120, 54.2940



15.4695, 11.9870, 20.6569



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.



32.3107, 15.6457, 47.2161



56.5344, 27.3778, 82.4693



25.2435, 12.8188, 10.0009



11.0496, 10.8032, 13.2447



20.7896, 10.0654, 30.4313



0.9943, 0.4806, 1.4930



# Inverse Universe

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



32.3107, 15.6457, 47.2161



56.5344, 27.3778, 82.4693



23.3922, 42.0347, 22.4385



11.0496, 10.8032, 13.2447



20.7896, 10.0654, 30.4313



0.9943, 0.4806, 1.4930



# Previews

## White Background



This preview shows how the XYZ color 32.3101, 15.6449, 47.2158 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

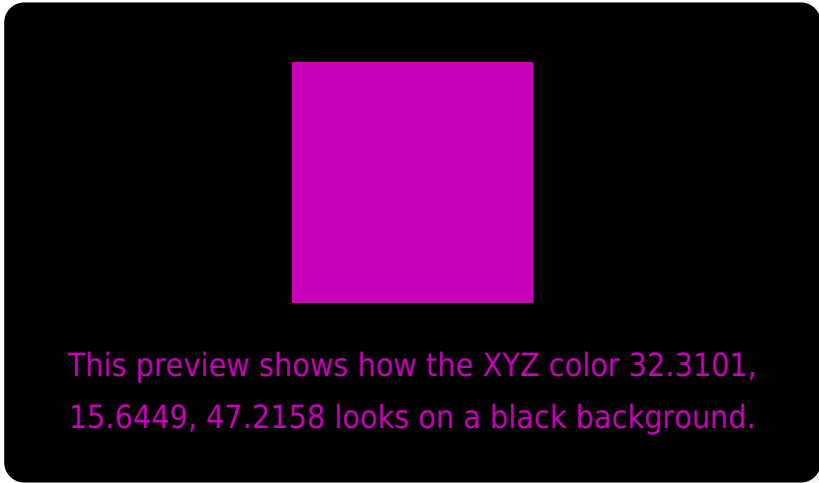
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

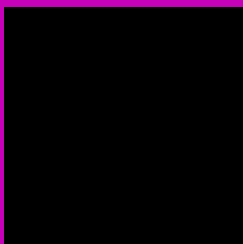
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 32.3101, 15.6449, 47.2158**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.3101, 15.6449, 47.2158.



This preview shows how white text looks on a background with the XYZ color 32.3101, 15.6449,



# 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

32.3101, 15.6449, 47.2158

### Protanopia

19.5054, 16.3823, 76.2628

### Deuteranopia

16.7424, 16.3498, 42.3178



## Tritanopia

24.4611, 15.9923, 8.8188

# Trichromacy



## Original Color

32.3101, 15.6449, 47.2158



## Protanomaly

16.8108, 10.4381, 64.0795



## Deuteranomaly

18.4575, 11.9318, 43.4497



## Tritanomaly

25.8676, 14.4214, 17.9432

# Monochromacy



## Original Color

32.3101, 15.6449, 47.2158



## Achromatopsia

7.8210, 8.2283, 8.9606



## Achromatomaly

12.8699, 8.0730, 18.3327

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.3101, 15.6449, 47.2158 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(199, 0, 185)` looks like.

```
.text, #text, p{  
  color:rgb(199, 0, 185)  
}
```

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(199, 0, 185) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 0, 185) }
```

## Border

The CSS property to change the border of an element to XYZ 32.3101, 15.6449, 47.2158 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(199, 0, 185) }
```



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

```
.border{ border-color:rgb(199, 0, 185) }
```

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

Here you see how a box with a 4 pixel rgb(199, 0, 185) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 0, 185); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 0, 185);  
box-shadow:4px 4px 4px 4px rgb(199, 0,  
185) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.3101, 15.6449, 47.2158 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 0, 185) }
```

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

```
.background{ background-color: rgb(199, 0,  
185) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor