

# Converting Colors

XYZ(31.7084, 32.7840, 47.0399)

Have a look what the booklet for  
XYZ(31.7084, 32.7840, 47.0399)  
contains.

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# Color

**XYZ(31.7121, 32.8084,  
47.3091)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	929BB3
RGB	146, 155, 179
RGB Percent	57%, 61%, 70%
CMY	0.4274, 0.3921, 0.2980
CMYK	0.18, 0.13, 0.00, 0.30
HSL	224°, 18%, 64%
HSV	224°, 18%, 70%
XYZ	31.7121, 32.8084, 47.3091
YIQ	155.0450, -13.0680, 5.5560

# Conversions

## Conversions Part 2

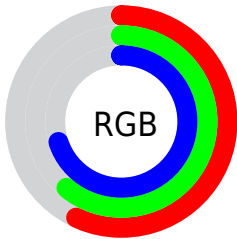
<b>Format</b>	<b>Color</b>
<b>RYB</b>	146, 153, 179
Decimal	9608115
CIELab	64.01, 1.94, -13.54
CIElCh	64, 13.679, 278.145
Yxy	32.8084, 0.2836, 0.2934
Android (android.graphics.Color)	4287798195 (0xFF929BB3)
YUV	155.0450, 11.8098, -7.9325
Hunter-Lab	57.2786, -1.4117, -8.8754

# Details

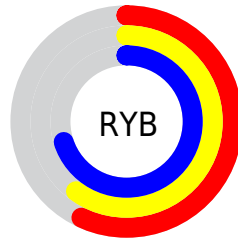
The XYZ color **31.7121, 32.8084, 47.3091** is a light color, and the websafe version is hex **999999**. A complement of this color would be **38.1537, 40.4084, 32.9835**, and the grayscale version is **31.1300, 32.7512, 35.6660**.

A 20% lighter version of the original color is **61.6153, 63.8784, 87.6796**, and **13.4355, 13.8399, 21.7019** is the 20% darker color. If you saturate the color by 10%, you get **26.7252, 27.1938, 46.4887**, and if you desaturate by 10%, it is **37.4328, 39.1497, 48.2321**.

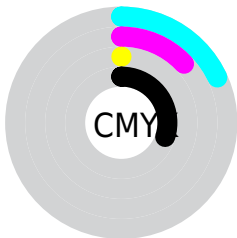
# Distribution



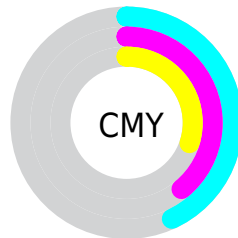
- Red (57%)
- Green (61%)
- Blue (70%)



- Red (57%)
- Yellow (60%)
- Blue (70%)



- Cyan (18%)
- Magenta (13%)
- Yellow (0%)
- Black (30%)



- Cyan (43%)
- Magenta (39%)
- Yellow (30%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.7121, 32.8084, 47.3091 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 31.7121, 32.8084, 47.3091 by changing the saturation by 10% instead.



■ 31.7121, 32.8084,  
47.3091

■ 31.7121, 32.8084,  
47.3091

301.5743,  
314.7855, 392.4764

■ 21.2962, 21.9797,  
32.9240

■ 61.7277, 64.0763,  
87.5296

■ 13.4544, 13.8420,  
21.7976

■ 82.0581, 85.2843,  
114.2021

■ 7.8213, 8.0108,  
13.5113

106.4241,  
110.7208, 145.8075

■ 4.0317, 4.1019,  
7.6467

135.1909,  
140.7703, 182.7643

■ 1.7201, 1.7307,  
3.7852

168.7240,  
175.8171, 225.4910

■ 0.4688, 0.4434,  
1.5083

207.3887,

■ 0.0000, 0.0000,

216.2456, 274.4063

0.2241

251.5504,  
262.4403, 329.9286

■ 0.0000, 0.0000,  
0.0000

■ 31.7121, 32.8084,  
47.3091

■ 31.7121, 32.8084,  
47.3091

■ 26.7252, 27.1938,  
46.4887

■ 37.4328, 39.1497,  
48.2321

■ 22.4385, 22.2751,  
45.7653

■ 43.9130, 46.2389,  
49.2589

■ 18.8205, 18.0253,  
45.1357

■ 51.1808, 54.1012,  
50.3934

■ 15.8356, 14.4141,  
44.5960

■ 59.2617, 62.7595,  
51.6388

■ 13.4451, 11.4084,  
44.1418

■ 68.1805, 72.2359,  
52.9978

■ 11.6054, 8.9722,  
43.7685

■ 77.9606, 82.5512,  
54.4734

■ 10.2666, 7.0645,  
43.4709

■ 82.3702, 90.5016,  
55.7756

■ 9.3498, 5.6288,  
43.2421

■ 85.1368, 96.0347,  
56.6978

■ 9.2280, 5.4371,  
43.2115

# Harmonies

## Analogous

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



29.8224, 32.8084, 46.5217



31.7121, 32.8084, 47.3091



33.5319, 32.8084, 44.7491

# Triad

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



31.7121, 32.8084, 47.3091



34.1936, 32.8084, 29.5527



27.8646, 32.8084, 31.9110

# Complementary

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



31.7121, 32.8084, 47.3091



38.1537, 40.4084, 32.9835

# 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.



28.9472, 32.8084, 28.0000



31.7121, 32.8084, 47.3091



32.5852, 32.8084, 26.7394

# Square

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



31.7121, 32.8084, 47.3091



35.0028, 32.8084, 34.2381



30.6606, 32.8084, 26.2018



27.6525, 32.8084, 37.2497



# Rectangle

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



31.7121, 32.8084, 47.3091



34.4426, 32.8084, 41.6301



30.6606, 32.8084, 26.2018



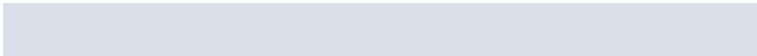
28.1366, 32.8084, 30.4025

# Sweetspot

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



31.7131, 32.8097, 47.3098



69.6254, 72.9568, 86.7936



35.1974, 41.2409, 43.9627



15.2666, 15.9891, 19.2038



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.7131, 32.8097, 47.3098



53.1267, 54.6493, 84.1295



31.5815, 30.6001, 46.8903



8.2244, 8.5949, 10.7318



6.5684, 3.9372, 30.5508



0.2564, 0.2234, 0.9778



# Inverse Universe

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



34.7865, 32.5088, 35.4533



59.6605, 54.1483, 58.8926



38.2894, 43.0698, 33.4901



8.5884, 8.5421, 9.3312



13.5501, 6.9376, 2.7908

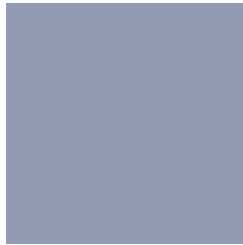


0.4515, 0.2283, 0.2200



# Previews

## White Background



This preview shows how the XYZ color 31.7121, 32.8084, 47.3091 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

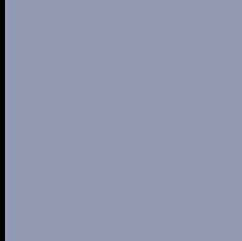
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.7121, 32.8084, 47.3091 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 31.7121, 32.8084, 47.3091

## Background



This preview shows how black text looks on a background with the XYZ color 31.7121, 32.8084, 47.3091.



This preview shows how white text looks on a background with the XYZ color 31.7121, 32.8084,



# 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

31.7121, 32.8084, 47.3091

### Protanopia

32.3540, 32.9049, 46.7655

### Deuteranopia

33.4054, 32.6976, 47.7306



## Tritanopia

30.7200, 32.9078, 42.2688

# Trichromacy



## Original Color

31.7121, 32.8084, 47.3091

## Protanomaly

31.9859, 32.7151, 46.7483

## Deuteranomaly

32.7929, 32.6218, 47.7483

## Tritanomaly

31.1083, 32.8138, 44.2293

# Monochromacy



## Original Color

31.7121, 32.8084, 47.3091

## Achromatopsia

31.1553, 32.7778, 35.6950

## Achromatomaly

31.3711, 32.7984, 39.7993

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.7121, 32.8084, 47.3091 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(146, 155, 179)` looks like.

```
.text, #text, p{  
    color:rgb(146, 155, 179)  
}
```

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(146, 155, 179) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(146, 155, 179) }
```

## Border

The CSS property to change the border of an element to XYZ 31.7121, 32.8084, 47.3091 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(146, 155, 179) }
```



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

```
.border{ border-color:rgb(146, 155, 179) }
```

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

Here you see how a box with a 4 pixel `rgb(146, 155, 179)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(146, 155, 179); -webkit-box-  
shadow:4px 4px 4px 4px rgb(146, 155, 179);  
box-shadow:4px 4px 4px 4px rgb(146, 155,  
179) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.7121, 32.8084, 47.3091 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(146, 155, 179) }
```

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

```
.background{ background-color: rgb(146,  
155, 179) }
```

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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