

# Converting Colors

XYZ(31.2623, 23.5017, 49.8476)

Have a look what the booklet for  
XYZ(31.2623, 23.5017, 49.8476)  
contains.

<b>XYZ(31.2316, 23.5028, 49.9041)</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(31.2316, 23.5028,  
49.9041)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AA6FBB
RGB	170, 111, 187
RGB Percent	67%, 44%, 73%
CMY	0.3333, 0.5647, 0.2667
CMYK	0.09, 0.41, 0.00, 0.27
HSL	287°, 36%, 58%
HSV	287°, 41%, 73%
XYZ	31.2316, 23.5028, 49.9041
YIQ	137.3050, 10.7680, 36.1440

# Conversions

## Conversions Part 2

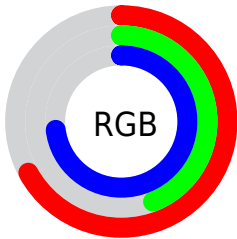
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	170, 111, 187
Decimal	11169723
CIE <sub>Lab</sub>	55.59, 36.47, -30.78
CIE <sub>LCh</sub>	56, 47.718, 319.837
Yxy	23.5028, 0.2985, 0.2246
Android (android.graphics.Color)	4289359803 (0xFFAA6FBB)
YUV	137.3050, 24.4996, 28.6735
Hunter-Lab	48.4797, 30.1539, -27.0963

# Details

The XYZ color **31.2316, 23.5028, 49.9041** is a light color, and the websafe version is hex **996699**. A complement of this color would be **29.5425, 41.2781, 21.4505**, and the grayscale version is **23.8013, 25.0408, 27.2694**.

A 20% lighter version of the original color is **60.8172, 49.1907, 91.0834**, and **13.1048, 8.7439, 23.1874** is the 20% darker color. If you saturate the color by 10%, you get **28.5111, 19.3823, 49.2525**, and if you desaturate by 10%, it is **34.4096, 28.4943, 50.7004**.

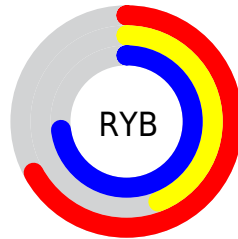
# Distribution



Red (67%)

Green (44%)

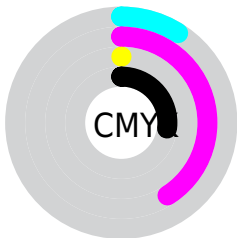
Blue (73%)



Red (67%)

Yellow (44%)

Blue (73%)

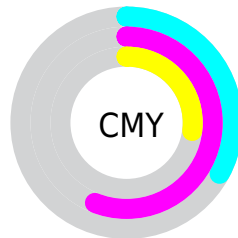


Cyan (9%)

Magenta (41%)

Yellow (0%)

Black (27%)



Cyan (33%)

Magenta (56%)

Yellow (27%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.2316, 23.5028, 49.9041 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 31.2316, 23.5028, 49.9041 by changing the saturation by 10% instead.



31.2316, 23.5028,  
49.9041

31.2316, 23.5028,  
49.9041

299.4117,  
270.2971, 403.0151

20.9280, 14.9652,  
34.9666

60.9779, 49.2176,  
91.4276

13.1835, 8.7950,  
23.3538

81.1512, 67.1636,  
118.8507

7.6329, 4.6077,  
14.6472

105.3452, 89.0146,  
151.2726

3.9108, 2.0190,  
8.4283

133.9251,  
115.1548, 189.1121

1.6518, 0.6185,  
4.2785

167.2564,  
145.9688, 232.7875

0.4258, 0.0000,  
1.7794

205.7044,

0.0000, 0.0000,

181.8409, 282.7174

0.4143

249.6344,  
223.1556, 339.3205

■ 0.0000, 0.0000,  
0.0000

■ 31.2316, 23.5028,  
49.9041

■ 31.2316, 23.5028,  
49.9041

■ 28.5111, 19.3823,  
49.2525

■ 34.4096, 28.4943,  
50.7004

■ 26.2184, 16.0760,  
48.7352

■ 38.0676, 34.4031,  
51.6481

■ 24.3244, 13.5248,  
48.3426

■ 42.2291, 41.2757,  
52.7553

■ 22.7946, 11.6606,  
48.0634

■ 46.9156, 49.1544,  
54.0291

■ 21.5883, 10.4023,  
47.8841

■ 52.1473, 58.0792,  
55.4760

■ 20.6770, 9.6232,  
47.7817

■ 57.9432, 68.0877,  
57.1024

■ 64.3214, 79.2159,  
58.9142

■ 69.4851, 87.8697,  
60.3124

■ 70.6432, 88.4668,  
60.3666

# Harmonies

## Analogous

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



26.0433, 23.5028, 64.8949



31.2316, 23.5028, 49.9041



34.1714, 23.5028, 31.1934

# Triad

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



31.2316, 23.5028, 49.9041



24.2178, 23.5028, 6.0828



13.9393, 23.5028, 37.0415

# Complementary

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



31.2316, 23.5028, 49.9041



29.5425, 41.2781, 21.4505

# 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.



13.6116, 23.5028, 20.7023



31.2316, 23.5028, 49.9041



19.0032, 23.5028, 6.5936

# Square

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



31.2316, 23.5028, 49.9041



29.7119, 23.5028, 8.9498



15.3178, 23.5028, 10.8239



16.2989, 23.5028, 55.6345



# Rectangle

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



31.2316, 23.5028, 49.9041



34.1850, 23.5028, 20.8475



15.3178, 23.5028, 10.8239



13.6042, 23.5028, 31.0034

# Sweetspot

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



31.2324, 23.5038, 49.9046



74.4124, 71.8946, 94.1565



23.3413, 22.5988, 50.1458



16.1646, 15.4635, 20.6753



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



31.2324, 23.5038, 49.9046



51.4454, 35.2809, 88.2998



33.1291, 24.7148, 39.4552



9.7155, 9.5857, 12.0104



14.3107, 6.6635, 32.9248



0.6130, 0.2880, 1.2921



# Inverse Universe

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



30.0750, 23.4932, 23.3727



49.3679, 35.4289, 33.1327



28.4415, 40.5667, 27.8998



9.6152, 9.5704, 10.3628



14.4290, 7.4028, 2.2870

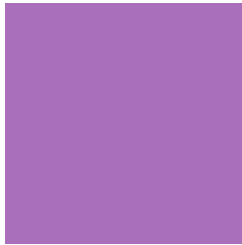


0.5906, 0.3001, 0.2234



# Previews

## White Background



This preview shows how the XYZ color 31.2316, 23.5028, 49.9041 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

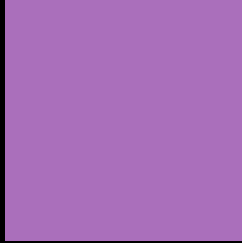
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 31.2316, 23.5028, 49.9041 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

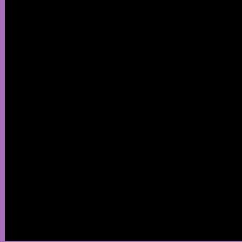
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# XYZ 31.2316, 23.5028, 49.9041

## Background



This preview shows how black text looks on a background with the XYZ color 31.2316, 23.5028, 49.9041.



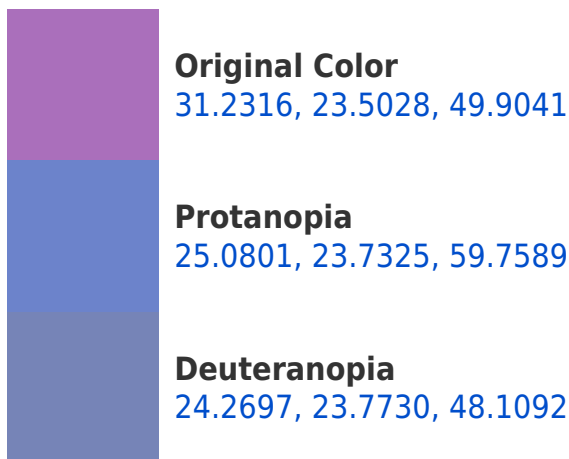
This preview shows how white text looks on a background with the XYZ color 31.2316, 23.5028,



# 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





## Tritanopia

26.1481, 23.5132, 24.9901

# Trichromacy



## Original Color

31.2316, 23.5028, 49.9041

## Protanomaly

26.6458, 23.2718, 55.9108

## Deuteranomaly

26.1759, 23.1944, 48.4447

## Tritanomaly

27.7814, 23.4600, 32.7698

# Monochromacy



## Original Color

31.2316, 23.5028, 49.9041

## Achromatopsia

23.7775, 25.0158, 27.2422

## Achromatomaly

26.0300, 24.1945, 34.3084

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.2316, 23.5028, 49.9041 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(170, 111, 187)` looks like.

```
.text, #text, p{  
    color:rgb(170, 111, 187)  
}
```

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(170, 111, 187) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 111, 187) }
```

## Border

The CSS property to change the border of an element to XYZ 31.2316, 23.5028, 49.9041 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(170, 111, 187) }
```



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

```
.border{ border-color:rgb(170, 111, 187) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 111, 187)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 111, 187); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 111, 187);  
box-shadow:4px 4px 4px 4px rgb(170, 111,  
187) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.2316, 23.5028, 49.9041 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 111, 187) }
```

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

```
.background{ background-color: rgb(170,  
111, 187) }
```

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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