

# Converting Colors

XYZ(23.2668, 19.4756, 33.5559)

Have a look what the booklet for  
XYZ(23.2668, 19.4756, 33.5559)  
contains.

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# Color

**XYZ(23.2391, 19.4148,  
33.5329)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	926D9B
RGB	146, 109, 155
RGB Percent	57%, 43%, 61%
CMY	0.4274, 0.5725, 0.3922
CMYK	0.06, 0.30, 0.00, 0.39
HSL	288°, 19%, 52%
HSV	288°, 30%, 61%
XYZ	23.2391, 19.4148, 33.5329
YIQ	125.3070, 7.2860, 22.1500

# Conversions

## Conversions Part 2

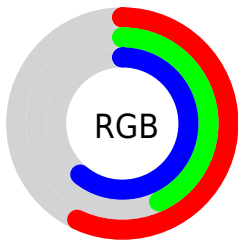
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	146, 109, 155
Decimal	9596315
CIE Lab	51.17, 23.13, -19.25
CIE LCh	51, 30.096, 320.228
Yxy	19.4148, 0.3050, 0.2548
Android (android.graphics.Color)	4287786395 (0xFF926D9B)
YUV	125.3070, 14.6386, 18.1478
Hunter-Lab	44.0622, 17.0348, -14.2782

# Details

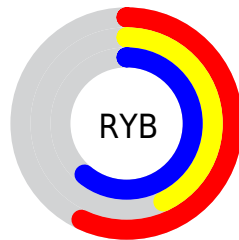
The XYZ color **23.2391, 19.4148, 33.5329** is a dark color, and the websafe version is hex **996699**. A complement of this color would be **21.9534, 28.3988, 18.7933**, and the grayscale version is **19.5474, 20.5654, 22.3957**.

A 20% lighter version of the original color is **48.1971, 42.4222, 66.6208**, and **8.8867, 6.7699, 13.9350** is the 20% darker color. If you saturate the color by 10%, you get **21.1974, 16.1207, 33.0050**, and if you desaturate by 10%, it is **25.5879, 23.3011, 34.1595**.

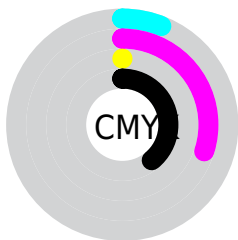
# Distribution



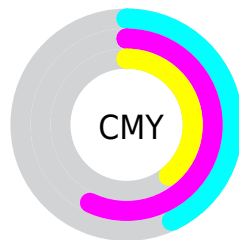
- Red (57%)
- Green (43%)
- Blue (61%)



- Red (57%)
- Yellow (43%)
- Blue (61%)



- Cyan (6%)
- Magenta (30%)
- Yellow (0%)
- Black (39%)




- Cyan (43%)
- Magenta (57%)
- Yellow (39%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.2391, 19.4148, 33.5329 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 23.2391, 19.4148, 33.5329 by changing the saturation by 10% instead.





 23.2391, 19.4148,  
33.5329


 23.2391, 19.4148,  
33.5329


261.4632,  
248.7292, 332.7496


 14.8918, 11.9704,  
22.2605


 48.2494, 42.4338,  
66.3322


 8.8293, 6.7235,  
13.8483


 65.6431, 58.7773,  
88.6962

 4.6862, 3.2898,  
7.8777


 86.7831, 78.8558,  
115.5945

 2.0972, 1.2848,  
3.9301

 112.0346,  
103.0539, 147.4457

 0.6877, 0.1294,  
1.5871

141.7630,  
131.7559, 184.6682

 0.0000, 0.0000,  
0.2816

176.3336,

 0.0000, 0.0000,

165.3461, 227.6807

0.0000

216.1119,  
204.2091, 276.9016

■ 23.2391, 19.4148,  
33.5329

■ 23.2391, 19.4148,  
33.5329

■ 21.1974, 16.1207,  
33.0050

■ 25.5879, 23.3011,  
34.1595

■ 19.4455, 13.3857,  
32.5694

■ 28.2563, 27.8055,  
34.8883

■ 17.9673, 11.1770,  
32.2210

■ 31.2583, 32.9555,  
35.7242

■ 16.7441, 9.4576,  
31.9536

■ 34.6064, 38.7761,  
36.6712

■ 15.7548, 8.1855,  
31.7602

■ 38.3126, 45.2910,  
37.7333

■ 14.9748, 7.3114,  
31.6326

■ 42.3882, 52.5227,  
38.9144

■ 14.3464, 6.7205,  
31.5516

■ 46.8440, 60.4927,  
40.2179

■ 14.3266, 6.7022,  
31.5491

■ 51.6905, 69.2216,  
41.6473

■ 56.9375, 78.7292,  
43.2059

# Harmonies

## Analogous

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



20.5153, 19.4148, 40.6816



23.2391, 19.4148, 33.5329



24.7253, 19.4148, 24.0618

# Triad

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



23.2391, 19.4148, 33.5329



19.4472, 19.4148, 8.7020



13.5630, 19.4148, 27.3654

# Complementary

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



23.2391, 19.4148, 33.5329



21.9534, 28.3988, 18.7933

# 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.



13.3431, 19.4148, 18.4638



23.2391, 19.4148, 33.5329



16.5341, 19.4148, 9.1393

# Square

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



23.2391, 19.4148, 33.5329



22.3849, 19.4148, 10.8338



14.3741, 19.4148, 12.2517



15.0111, 19.4148, 36.5056



# Rectangle

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



23.2391, 19.4148, 33.5329



24.7156, 19.4148, 18.3458



14.3741, 19.4148, 12.2517



13.3495, 19.4148, 24.2032

# Sweetspot

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



23.2397, 19.4156, 33.5333



50.8582, 50.2298, 62.5511



18.7258, 18.6226, 33.6182



11.3545, 11.1021, 14.1148



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694



# Same Dimension

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



23.2397, 19.4156, 33.5333



38.9940, 30.5176, 59.3716



23.8094, 19.8356, 27.8517



6.3428, 6.2626, 7.8035



11.5378, 5.3990, 25.3417



0.1994, 0.0946, 0.3801



# Inverse Universe

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



22.2568, 19.2146, 19.6760



37.0161, 30.1482, 29.9011



21.5913, 28.1194, 22.9637



6.2558, 6.2415, 6.7269



11.0603, 5.6784, 1.5768

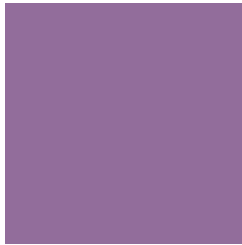


0.1760, 0.0891, 0.0796



# Previews

## White Background



This preview shows how the XYZ color 23.2391, 19.4148, 33.5329 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 23.2391, 19.4148, 33.5329 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 23.2391, 19.4148, 33.5329**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.2391, 19.4148, 33.5329.



This preview shows how white text looks on a background with the XYZ color 23.2391, 19.4148,



# 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

23.2391, 19.4148, 33.5329

### Protanopia

19.9686, 19.6701, 37.8662

### Deuteranopia

19.9375, 19.5844, 32.8663



## Tritanopia

20.7533, 19.3794, 21.7156

# Trichromacy



## Original Color

23.2391, 19.4148, 33.5329

## Protanomaly

20.9627, 19.5067, 36.3785

## Deuteranomaly

20.9802, 19.4131, 33.2132

## Tritanomaly

21.6060, 19.3992, 25.5273

# Monochromacy



## Original Color

23.2391, 19.4148, 33.5329

## Achromatopsia

19.4927, 20.5079, 22.3331

## Achromatomaly

20.7136, 19.9578, 26.0531

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.2391, 19.4148, 33.5329 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, 109, 155)` looks like.

```
.text, #text, p{  
    color:rgb(146, 109, 155)  
}
```

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, 109, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(146, 109, 155) }
```

## Border

The CSS property to change the border of an element to XYZ 23.2391, 19.4148, 33.5329 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, 109, 155) }
```



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

```
.border{ border-color:rgb(146, 109, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(146, 109, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(146, 109, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(146, 109, 155);  
box-shadow:4px 4px 4px 4px rgb(146, 109,  
155) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.2391, 19.4148, 33.5329 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(146, 109, 155) }
```

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

```
.background{ background-color: rgb(146,  
109, 155) }
```

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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