

# Converting Colors

XYZ(4.8613, 1.6797, 32.4845)

Have a look what the booklet for  
XYZ(4.8613, 1.6797, 32.4845)  
contains.

<b>XYZ(6.1716, 2.4686, 32.4990)</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(6.1716, 2.4686,  
32.4990)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00009E
RGB	0, 0, 158
RGB Percent	0%, 0%, 62%
CMY	0.9999, 1.0000, 0.3804
CMYK	1.00, 1.00, 0.00, 0.38
HSL	240°, 100%, 31%
HSV	240°, 100%, 62%
XYZ	6.1716, 2.4686, 32.4990
YIQ	18.0120, -50.7180, 49.1380

# Conversions

## Conversions Part 2

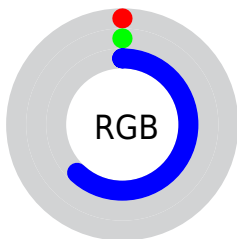
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 0, 158
Decimal	158
CIELab	17.78, 55.38, -75.43
CIELCh	18, 93.573, 306.288
Yxy	2.4686, 0.1500, 0.0600
Android (android.graphics.Color)	4278190238 (0xFF00009E)
YUV	18.0120, 69.0141, -15.7965
Hunter-Lab	15.7118, 42.6193, -111.6400

# Details

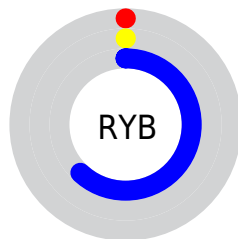
The XYZ color **6.1716, 2.4686, 32.4990** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **26.3214, 31.7198, 4.7352**, and the grayscale version is **0.5490, 0.5776, 0.6290**.

A 20% lighter version of the original color is **17.9654, 9.9587, 64.5937**, and **2.5498, 1.0199, 13.4271** is the 20% darker color. If you saturate the color by 10%, you get **6.1720, 2.4688, 32.4991**, and if you desaturate by 10%, it is **6.5647, 2.9420, 32.5698**.

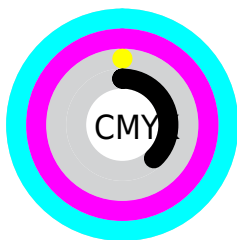
# Distribution



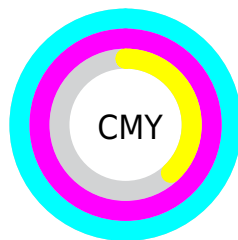
- Red (0%)
- Green (0%)
- Blue (62%)



- Red (0%)
- Yellow (0%)
- Blue (62%)



- Cyan (100%)
- Magenta (100%)
- Yellow (0%)
- Black (38%)




- Cyan (100%)
- Magenta (100%)
- Yellow (38%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 6.1716, 2.4686, 32.4990 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 6.1716, 2.4686, 32.4990 by changing the saturation by 10% instead.




 6.1716, 2.4686,  
32.4990


 6.1716, 2.4686,  
32.4990


 155.2913,  
121.4886, 327.9486


 2.9914, 0.8609,  
21.4750


 18.0078, 9.9630,  
64.6995


 1.1492, 0.0000,  
13.2770


 27.3944, 16.6187,  
86.7131

 0.0657, 0.0000,  
7.4866


 39.5805, 25.7259,  
113.2269

 0.0000, 0.0000,  
3.6852

 54.9315, 37.6691,  
144.6595

 0.0000, 0.0000,  
1.4543

 73.8128, 52.8325,  
181.4294

 0.0000, 0.0000,  
0.1835


 96.5895, 71.6006,


 0.0000, 0.0000,


223.9552

0.0000


 123.6273, 94.3578,  
272.6554


 6.1716, 2.4686,  
32.4990


 6.1716, 2.4686,  
32.4990


 6.1720, 2.4688,  
32.4991

 6.5647, 2.9420,  
32.5698

 7.2615, 3.7814,  
32.6951

 8.3960, 5.1482,  
32.8991

 10.0241, 7.1098,  
33.1919

 12.1934, 9.7236,  
33.5821

■ 14.9457, 13.0400,  
34.0772

■ 18.3190, 17.1047,  
34.6839

■ 22.3480, 21.9595,  
35.4087

■ 27.0647, 27.6431,  
36.2571

# Harmonies

## Analogous

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



2.8775, 2.4686, 47.0879



6.1716, 2.4686, 32.4990



9.4043, 2.4686, 11.9907

# Triad

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



6.1716, 2.4686, 32.4990



4.6765, 2.4686, 0.0000



0.0000, 2.4686, 4.3713

# Complementary

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



6.1716, 2.4686, 32.4990



26.3214, 31.7198, 4.7352

# 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.



0.0000, 2.4686, 0.0000



6.1716, 2.4686, 32.4990



1.8849, 2.4686, 0.0000

# Square

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



6.1716, 2.4686, 32.4990



8.2086, 2.4686, 0.0000



0.5185, 2.4686, 0.0000



0.0292, 2.4686, 19.9605



# Rectangle

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



6.1716, 2.4686, 32.4990



10.3757, 2.4686, 3.6171



0.5185, 2.4686, 0.0000



0.0000, 2.4686, 1.9332

# Sweetspot

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



6.1720, 2.4688, 32.4991



32.8758, 30.5904, 62.9152



18.3985, 26.9225, 36.5748



6.8379, 6.2050, 14.0809



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444



# Same Dimension

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



6.1720, 2.4688, 32.4991



11.2080, 4.4833, 59.0181



9.3960, 4.1309, 32.6500



6.2849, 6.4353, 8.3176



4.9431, 1.9773, 26.0284



0.0884, 0.0354, 0.4654



# Inverse Universe

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



20.2695, 9.7367, 33.1448



36.8091, 17.6817, 60.1900



15.4514, 26.1161, 4.2265



6.9041, 6.7546, 8.3463



16.2337, 7.7981, 26.5455

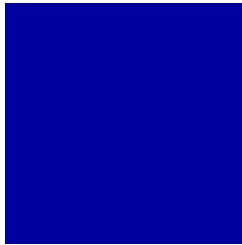


0.2903, 0.1394, 0.4747



# Previews

## White Background



This preview shows how the XYZ color 6.1716, 2.4686, 32.4990 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

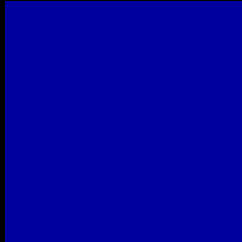
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



This preview shows how the XYZ color 6.1716, 2.4686, 32.4990 looks on a black 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

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

**XYZ 6.1716, 2.4686, 32.4990**

## **Background**



This preview shows how black text looks on a background with the XYZ color 6.1716, 2.4686, 32.4990.



This preview shows how white text looks on a background with the XYZ color 6.1716, 2.4686, 32.4990.



# 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

6.1716, 2.4686, 32.4990

### Protanopia

3.1347, 2.8171, 11.6878

### Deuteranopia

2.6213, 2.8058, 8.3861



## Tritanopia

1.9627, 2.8220, 4.0557

# Trichromacy



## Original Color

6.1716, 2.4686, 32.4990

## Protanomaly

3.7691, 2.2106, 17.6808

## Deuteranomaly

3.3045, 2.1058, 14.9841

## Tritanomaly

2.5038, 1.9168, 10.3632

# Monochromacy



## Original Color

6.1716, 2.4686, 32.4990

## Achromatopsia

0.5749, 0.6049, 0.6587

## Achromatomaly

1.3319, 0.7402, 5.7029

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 6.1716, 2.4686, 32.4990 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(0, 0, 158)` looks like.

```
.text, #text, p{  
    color:rgb(0, 0, 158)  
}
```

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(0, 0, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 0, 158) }
```

## Border

The CSS property to change the border of an element to XYZ 6.1716, 2.4686, 32.4990 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(0, 0, 158) }
```



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

```
.border{ border-color:rgb(0, 0, 158) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 0, 158)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 0, 158); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 0, 158); box-shadow:4px  
4px 4px 4px rgb(0, 0, 158) }
```

# Background

The CSS property to change the background color of an element to XYZ 6.1716, 2.4686, 32.4990 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 0, 158) }
```

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

```
.background{ background-color: rgb(0, 0,  
158) }
```

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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