

# Converting Colors

XYZ(16.5074, 18.2460, 39.6978)

Have a look what the booklet for  
XYZ(16.5074, 18.2460, 39.6978)  
contains.

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# Color

**XYZ(16.4656, 18.1864,  
39.6883)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	437BA8
RGB	67, 123, 168
RGB Percent	26%, 48%, 66%
CMY	0.7372, 0.5176, 0.3412
CMYK	0.60, 0.27, 0.00, 0.34
HSL	207°, 43%, 46%
HSV	207°, 60%, 66%
XYZ	16.4656, 18.1864, 39.6883
YIQ	111.3860, -47.8210, 2.1230

# Conversions

## Conversions Part 2

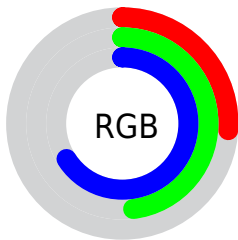
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	67, 103, 168
Decimal	4422568
CIE Lab	49.72, -4.55, -29.55
CIE LCh	50, 29.902, 261.243
Yxy	18.1864, 0.2215, 0.2446
Android (android.graphics.Color)	4282612648 (0xFF437BA8)
YUV	111.3860, 27.9107, -38.9265
Hunter-Lab	42.6455, -5.7101, -25.3267

# Details

The XYZ color **16.4656, 18.1864, 39.6883** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **22.9565, 20.3194, 8.0231**, and the grayscale version is **15.1536, 15.9427, 17.3616**.

A 20% lighter version of the original color is **36.8176, 40.1986, 75.6306**, and **5.6685, 6.2931, 17.4389** is the 20% darker color. If you saturate the color by 10%, you get **14.5833, 15.8901, 39.3446**, and if you desaturate by 10%, it is **18.7543, 20.7982, 40.0722**.

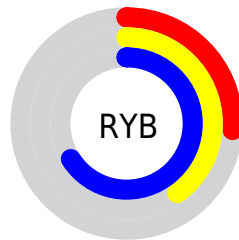
# Distribution



Red (26%)

Green (48%)

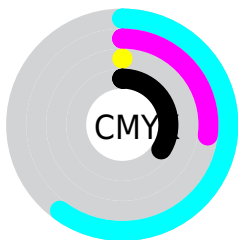
Blue (66%)



Red (26%)

Yellow (40%)

Blue (66%)

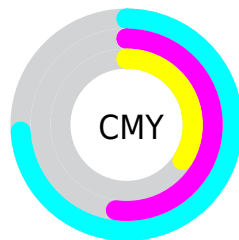


Cyan (60%)

Magenta (27%)

Yellow (0%)

Black (34%)



Cyan (74%)

Magenta (52%)

Yellow (34%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.4656, 18.1864, 39.6883 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 16.4656, 18.1864, 39.6883 by changing the saturation by 10% instead.



■ 16.4656, 18.1864,  
39.6883

■ 16.4656, 18.1864,  
39.6883

225.2905,  
241.9196, 360.3210

■ 9.9472, 11.0839,  
26.9837

■ 36.9556, 40.3547,  
75.9205

■ 5.4259, 6.1233,  
17.3286

■ 51.6579, 56.1893,  
100.2852

■ 2.5366, 2.9202,  
10.3046

■ 69.8188, 75.7033,  
129.3736

■ 0.9137, 1.0902,  
5.4932

■ 91.8037, 99.2812,  
163.6043

■ 0.0000, 0.0000,  
2.4757

■ 117.9779,  
127.3074, 203.3959

■ 0.0000, 0.0000,  
0.8272

148.7069,

■ 0.0000, 0.0000,

160.1663, 249.1668

0.0000

184.3560,  
198.2422, 301.3357

■ 16.4656, 18.1864,  
39.6883

■ 16.4656, 18.1864,  
39.6883

■ 14.5833, 15.8901,  
39.3446

■ 18.7543, 20.7982,  
40.0722

■ 13.0741, 13.8890,  
39.0379

■ 21.4752, 23.7402,  
40.4966

■ 11.9018, 12.1622,  
38.7664

■ 24.6542, 27.0282,  
40.9637

■ 10.9953, 10.6818,  
38.5284

■ 28.3142, 30.6763,  
41.4750

■ 32.4767, 34.6975,  
42.0317

■ 37.1618, 39.1041,  
42.6354

■ 42.3883, 43.9080,  
43.2872

■ 48.1742, 49.1203,  
43.9883

■ 54.5366, 54.7517,  
44.7399

# Harmonies

## Analogous

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



14.0804, 18.1864, 34.7150



16.4656, 18.1864, 39.6883



19.3458, 18.1864, 38.3019

# Triad

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



16.4656, 18.1864, 39.6883



22.9060, 18.1864, 14.6476



13.3588, 18.1864, 11.5200

# Complementary

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



16.4656, 18.1864, 39.6883



22.9565, 20.3194, 8.0231

# 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.



15.3772, 18.1864, 8.4896



16.4656, 18.1864, 39.6883



20.9438, 18.1864, 9.9202

# Square

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



16.4656, 18.1864, 39.6883



23.2797, 18.1864, 22.2857



18.1324, 18.1864, 7.9977



12.4204, 18.1864, 17.5099



# Rectangle

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



16.4656, 18.1864, 39.6883



21.1513, 18.1864, 34.0832



18.1324, 18.1864, 7.9977



13.9223, 18.1864, 10.1985

# Sweetspot

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



16.4662, 18.1870, 39.6887



52.6607, 56.9189, 75.4360



19.1744, 30.3417, 19.8185



11.0423, 11.9793, 16.3824



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656



# Same Dimension

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



16.4662, 18.1870, 39.6887



25.5145, 27.6140, 71.2104



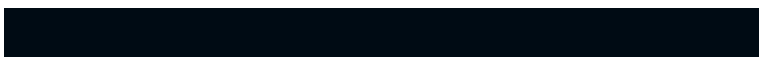
11.8144, 8.8833, 38.1381



7.4637, 7.9643, 9.5622



8.3549, 8.1700, 29.1121



0.2531, 0.2985, 0.7249



# Inverse Universe

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



21.7313, 13.7699, 20.2520



36.4149, 20.6557, 30.4801



29.9536, 34.3136, 10.3555



7.6986, 7.6093, 8.7302



13.7178, 6.8958, 8.5912



0.3589, 0.1778, 0.3415



# Previews

## White Background



This preview shows how the XYZ color 16.4656, 18.1864, 39.6883 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



This preview shows how the XYZ color 16.4656, 18.1864, 39.6883 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

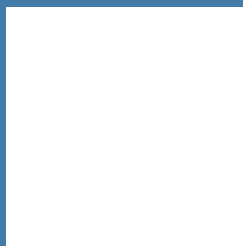
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 16.4656, 18.1864, 39.6883**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.4656, 18.1864, 39.6883.



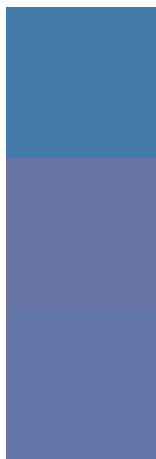
This preview shows how white text looks on a background with the XYZ color 16.4656, 18.1864,



# 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

16.4656, 18.1864, 39.6883

### Protanopia

18.5652, 18.0782, 37.1613

### Deuteranopia

18.4525, 18.1285, 40.0627



## Tritanopia

13.9007, 18.0867, 27.1845

# Trichromacy



## Original Color

16.4656, 18.1864, 39.6883

## Protanomaly

17.7027, 18.1344, 38.1646

## Deuteranomaly

17.5960, 18.0367, 40.0901

## Tritanomaly

14.7695, 18.0535, 31.5604

# Monochromacy



## Original Color

16.4656, 18.1864, 39.6883

## Achromatopsia

15.1092, 15.8961, 17.3108

## Achromatomaly

15.0149, 16.3603, 24.1963

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.4656, 18.1864, 39.6883 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(67, 123, 168)` looks like.

```
.text, #text, p{  
    color:rgb(67, 123, 168)  
}
```

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(67, 123, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(67, 123, 168) }
```

## Border

The CSS property to change the border of an element to XYZ 16.4656, 18.1864, 39.6883 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(67, 123, 168) }
```



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

```
.border{ border-color:rgb(67, 123, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(67, 123, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(67, 123, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(67, 123, 168);  
box-shadow:4px 4px 4px 4px rgb(67, 123,  
168) }
```

# Background

The CSS property to change the background color of an element to XYZ 16.4656, 18.1864, 39.6883 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(67, 123, 168) }
```

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

```
.background{ background-color: rgb(67, 123,  
168) }
```

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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