

# Converting Colors

XYZ(18.9718, 23.2991, 7.6507)

Have a look what the booklet for  
XYZ(18.9718, 23.2991, 7.6507)  
contains.

<b>XYZ(19.0753, 23.4481, 7.6582)</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(19.0753, 23.4481,  
7.6582)**

# Conversions

## Conversions Part 1

Format	Color
Hex	818B3B
RGB	129, 139, 59
RGB Percent	51%, 55%, 23%
CMY	0.4941, 0.4549, 0.7686
CMYK	0.07, 0.00, 0.58, 0.45
HSL	68°, 40%, 39%
HSV	68°, 58%, 55%
XYZ	19.0753, 23.4481, 7.6582
YIQ	126.8900, 19.7200, -27.0000

# Conversions

## Conversions Part 2

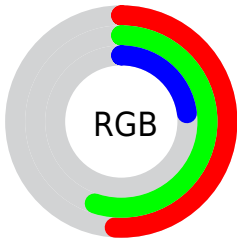
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	59, 139, 69
Decimal	8489787
CIE <sub>Lab</sub>	55.53, -15.58, 40.77
CIE <sub>LCh</sub>	56, 43.649, 110.917
Yxy	23.4481, 0.3801, 0.4673
Android (android.graphics.Color)	4286679867 (0xFF818B3B)
YUV	126.8900, -33.4698, 1.8505
Hunter-Lab	48.4232, -14.4244, 24.5195

# Details

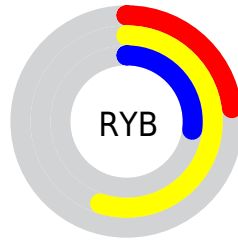
The XYZ color **19.0753, 23.4481, 7.6582** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **8.6792, 6.2577, 25.1779**, and the grayscale version is **20.2421, 21.2962, 23.1916**.

A 20% lighter version of the original color is **41.3771, 48.9937, 21.7439**, and **6.6658, 8.7357, 1.5071** is the 20% darker color. If you saturate the color by 10%, you get **18.5002, 23.1887, 5.9937**, and if you desaturate by 10%, it is **19.7520, 23.7504, 9.8296**.

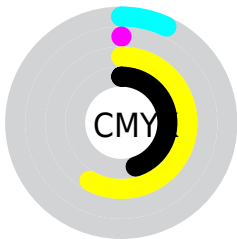
# Distribution



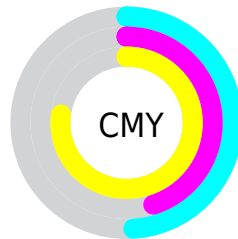
- Red (51%)
- Green (55%)
- Blue (23%)



- Red (23%)
- Yellow (55%)
- Blue (27%)



- Cyan (7%)
- Magenta (0%)
- Yellow (58%)
- Black (45%)



- Cyan (49%)
- Magenta (45%)
- Yellow (77%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.0753, 23.4481, 7.6582 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 19.0753, 23.4481, 7.6582 by changing the saturation by 10% instead.



■ 19.0753, 23.4481,  
7.6582

■ 19.0753, 23.4481,  
7.6582

239.7943,  
270.0182, 182.8593

■ 11.8290, 14.9247,  
3.7924

■ 41.3772, 49.1281,  
21.8206

■ 6.6987, 8.7666,  
1.5122

■ 57.1635, 67.0535,  
32.9543

■ 3.3191, 4.5892,  
0.2270

■ 76.5272, 88.8816,  
47.3477

■ 1.3247, 2.0083,  
0.0000

■ 99.8337, 114.9970,  
65.4194

■ 0.2016, 0.6123,  
0.0000

■ 127.4483,  
145.7839, 87.5878

■ 0.0000, 0.0000,  
0.0000

■ 159.7364,

181.6269, 114.2716

197.0632,  
222.9102, 145.8892

■ 19.0753, 23.4481,  
7.6582

■ 19.0753, 23.4481,  
7.6582

■ 18.5002, 23.1887,  
5.9937

■ 19.7520, 23.7504,  
9.8296

■ 18.0172, 22.9657,  
4.7935

■ 20.5357, 24.0952,  
12.5431

■ 17.6179, 22.7768,  
4.0105

■ 21.4333, 24.4860,  
15.8324

■ 17.2845, 22.6147,  
3.5517

■ 22.4505, 24.9252,  
19.7281

■ 17.2058, 22.5763,  
3.4508

■ 23.5928, 25.4150,  
24.2585

■ 24.8652, 25.9574,  
29.4503

■ 26.2726, 26.5542,  
35.3286

■ 27.8195, 27.2075,  
41.9172

■ 29.5101, 27.9187,  
49.2387

# Harmonies

## Analogous

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



23.8145, 23.4481, 7.0281



19.0753, 23.4481, 7.6582



15.7172, 23.4481, 11.9706

# Triad

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



19.0753, 23.4481, 7.6582



16.8361, 23.4481, 52.8837



33.0009, 23.4481, 30.0538

# Complementary

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



19.0753, 23.4481, 7.6582



8.6792, 6.2577, 25.1779

# 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.



30.4711, 23.4481, 46.7179



19.0753, 23.4481, 7.6582



20.8257, 23.4481, 62.7442

# Square

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



19.0753, 23.4481, 7.6582



14.5628, 23.4481, 36.4836



25.8397, 23.4481, 60.1464



32.3490, 23.4481, 17.0242



# Rectangle

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



19.0753, 23.4481, 7.6582



14.4849, 23.4481, 17.6544



25.8397, 23.4481, 60.1464



32.4821, 23.4481, 35.4585

# Sweetspot

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



19.0759, 23.4492, 7.6587



40.2383, 44.6496, 35.4664



13.5250, 9.9800, 5.3514



9.1955, 10.2555, 7.8749



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021



# Same Dimension

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



19.0759, 23.4492, 7.6587



32.8574, 41.4003, 10.0168



14.2069, 20.9392, 7.4308



5.3706, 5.8138, 5.3915



15.5379, 20.3801, 3.1148



0.1112, 0.1395, 0.0211



# Inverse Universe

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



8.6792, 6.2577, 25.1779



12.4195, 7.5468, 44.5451



12.4499, 8.2016, 25.3543



4.8290, 4.9203, 6.3010



4.4298, 1.7978, 22.1592



0.0359, 0.0153, 0.1475



# Previews

## White Background



This preview shows how the XYZ color 19.0753, 23.4481, 7.6582 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 19.0753, 23.4481, 7.6582 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

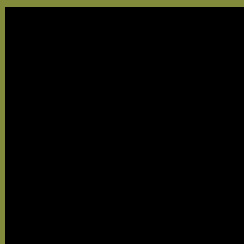
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 19.0753, 23.4481, 7.6582**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.0753, 23.4481, 7.6582.



This preview shows how white text looks on a background with the XYZ color 19.0753, 23.4481,



# 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

19.0753, 23.4481, 7.6582

### Protanopia

21.3388, 23.3664, 7.2564

### Deuteranopia

23.6679, 23.1731, 7.9280



## Tritanopia

23.4053, 23.5590, 28.5130

# Trichromacy



## Original Color

19.0753, 23.4481, 7.6582

## Protanomaly

20.4122, 23.2962, 7.4238

## Deuteranomaly

21.7483, 23.1597, 7.8814

## Tritanomaly

21.3860, 23.3488, 18.4185

# Monochromacy



## Original Color

19.0753, 23.4481, 7.6582

## Achromatopsia

20.1725, 21.2231, 23.1119

## Achromatomaly

19.4167, 21.7811, 15.7512

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.0753, 23.4481, 7.6582 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(129, 139, 59)` looks like.

```
.text, #text, p{  
    color:rgb(129, 139, 59)  
}
```

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(129, 139, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 139, 59) }
```

## Border

The CSS property to change the border of an element to XYZ 19.0753, 23.4481, 7.6582 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(129, 139, 59) }
```



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

```
.border{ border-color:rgb(129, 139, 59) }
```

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

Here you see how a box with a 4 pixel `rgb(129, 139, 59)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(129, 139, 59); -webkit-box-shadow:4px 4px 4px 4px rgb(129, 139, 59); box-shadow:4px 4px 4px 4px rgb(129, 139, 59) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.0753, 23.4481, 7.6582 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 139, 59) }
```

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

```
.background{ background-color: rgb(129,  
139, 59) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor