

# Converting Colors

XYZ(23.2705, 39.3241, 6.7452)

Have a look what the booklet for  
XYZ(23.2705, 39.3241, 6.7452)  
contains.

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# Color

**XYZ(23.3100, 39.3428,  
6.7461)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	60BE0D
RGB	96, 190, 13
RGB Percent	38%, 75%, 5%
CMY	0.6235, 0.2549, 0.9490
CMYK	0.49, 0.00, 0.93, 0.25
HSL	92°, 87%, 40%
HSV	92°, 93%, 75%
XYZ	23.3100, 39.3428, 6.7461
YIQ	141.7160, 0.7930, -74.9750

# Conversions

## Conversions Part 2

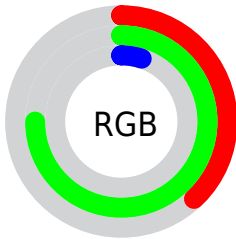
<b>Format</b>	<b>Color</b>
<b>RYB</b>	13, 190, 107
Decimal	6340109
CIELab	69.00, -53.40, 67.41
CIElCh	69, 86.000, 128.387
Yxy	39.3428, 0.3359, 0.5669
Android (android.graphics.Color)	4284530189 (0xFF60BE0D)
YUV	141.7160, -63.4570, -40.0929
Hunter-Lab	62.7238, -43.4309, 37.5299

# Details

The XYZ color **23.3100, 39.3428, 6.7461** is a dark color, and the websafe version is hex **66CC33**. A complement of this color would be **15.5047, 7.1332, 49.2771**, and the grayscale version is **25.8431, 27.1890, 29.6088**.

A 20% lighter version of the original color is **48.3397, 74.1146, 19.9414**, and **9.2562, 17.8413, 2.9559** is the 20% darker color. If you saturate the color by 10%, you get **22.5424, 38.9567, 6.3313**, and if you desaturate by 10%, it is **24.6300, 40.0028, 7.7909**.

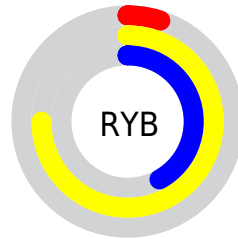
# Distribution



Red (38%)

Green (75%)

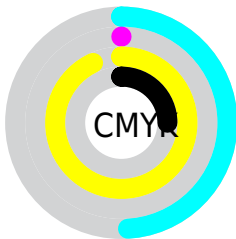
Blue (5%)



Red (5%)

Yellow (75%)

Blue (42%)

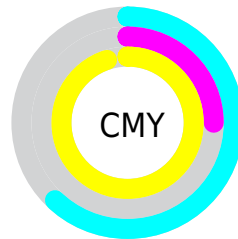


Cyan (49%)

Magenta (0%)

Yellow (93%)

Black (25%)



Cyan (62%)

Magenta (25%)


Yellow (95%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.3100, 39.3428, 6.7461 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 23.3100, 39.3428, 6.7461 by changing the saturation by 10% instead.





 23.3100, 39.3428,  
6.7461


 23.3100, 39.3428,  
6.7461


261.8189,  
343.3457, 175.0871


 14.9445, 27.0265,  
3.2278


 48.3648, 74.1617,  
19.9647


 8.8665, 17.5931,  
1.2121


 65.7848, 97.4331,  
30.5020


 4.7106, 10.6583,  
0.0000


 86.9537, 125.1250,  
44.2161

 2.1115, 5.8375,  
0.0000

 112.2368,  
157.6218, 61.5256

 0.6955, 2.7466,  
0.0000

 141.9996,  
195.3079, 82.8488

 0.0000, 1.0009,  
0.0000

 176.6073,

 0.0000, 0.0000,

238.5676, 108.6045

0.0000

216.4253,  
287.7854, 139.2111

■ 23.3100, 39.3428,  
6.7461

■ 23.3100, 39.3428,  
6.7461

■ 22.5424, 38.9567,  
6.3313

■ 24.6300, 40.0028,  
7.7909

■ 26.2391, 40.7934,  
9.6249

■ 28.1652, 41.7276,  
12.3671

■ 30.4313, 42.8152,  
16.1154

■ 33.0578, 44.0648,  
20.9555

■ 36.0634, 45.4844,  
26.9637

■ 39.4650, 47.0811,  
34.2095

■ 43.2785, 48.8618,  
42.7570

■ 47.5190, 50.8330,  
52.6656

# Harmonies

## Analogous

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



33.6834, 39.3428, 3.1612



23.3100, 39.3428, 6.7461



17.8666, 39.3428, 20.6309

# Triad

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



23.3100, 39.3428, 6.7461



28.5091, 39.3428, 158.1586



69.9634, 39.3428, 32.7527

# Complementary

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



23.3100, 39.3428, 6.7461



15.5047, 7.1332, 49.2771

# 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.



67.6068, 39.3428, 77.0533



23.3100, 39.3428, 6.7461



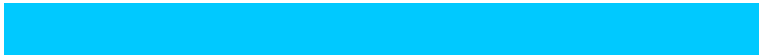
41.3679, 39.3428, 169.1434

# Square

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



23.3100, 39.3428, 6.7461



20.3183, 39.3428, 108.8058



56.2452, 39.3428, 133.3113



62.0655, 39.3428, 10.9995



# Rectangle

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



23.3100, 39.3428, 6.7461



16.7649, 39.3428, 40.7492



56.2452, 39.3428, 133.3113



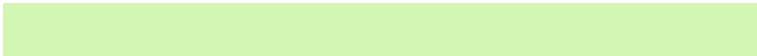
70.3759, 39.3428, 44.9962

# Sweetspot

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



23.3109, 39.3445, 6.7470



68.1524, 83.7385, 54.7391



26.3057, 20.9702, 3.0425



14.3914, 18.1183, 10.8148



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



23.3109, 39.3445, 6.7470



40.5669, 70.4470, 11.4595



18.6738, 36.9516, 6.6371



9.8226, 10.8630, 10.1557



15.0778, 25.9488, 4.2139



0.6661, 1.0554, 0.1686



# Inverse Universe

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



15.5047, 7.1332, 49.2771



26.2610, 11.5924, 89.1326



30.3558, 14.8261, 48.3059



9.4872, 9.4680, 11.9997



9.8338, 4.3556, 32.7153



0.4601, 0.2092, 1.2850



# Previews

## White Background



This preview shows how the XYZ color 23.3100, 39.3428, 6.7461 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

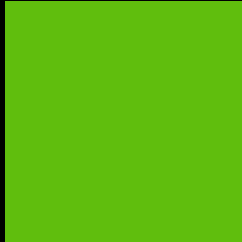
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 23.3100, 39.3428, 6.7461 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 ✓ Pass

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

**XYZ 23.3100, 39.3428, 6.7461**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.3100, 39.3428, 6.7461.



This preview shows how white text looks on a background with the XYZ color 23.3100, 39.3428,



# 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

23.3100, 39.3428, 6.7461

### Protanopia

34.9889, 38.8241, 5.6497

### Deuteranopia

39.3595, 38.6511, 7.3934



## **Tritanopia**

33.0113, 39.2708, 55.1304

# Trichromacy



## Original Color

23.3100, 39.3428, 6.7461



## Protanomaly

29.0703, 38.0302, 5.9520



## Deuteranomaly

30.9713, 37.2782, 6.7913



## Tritanomaly

27.1759, 38.4070, 25.7196

# Monochromacy



## Original Color

23.3100, 39.3428, 6.7461



## Achromatopsia

25.7108, 27.0498, 29.4572



## Achromatomaly

22.9211, 29.9825, 15.4056

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.3100, 39.3428, 6.7461 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(96, 190, 13)` looks like.

```
.text, #text, p{  
    color:rgb(96, 190, 13)  
}
```

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(96, 190, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(96, 190, 13) }
```

## Border

The CSS property to change the border of an element to XYZ 23.3100, 39.3428, 6.7461 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(96, 190, 13) }
```



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

```
.border{ border-color:rgb(96, 190, 13) }
```

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

Here you see how a box with a 4 pixel `rgb(96, 190, 13)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(96, 190, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(96, 190, 13);  
box-shadow:4px 4px 4px 4px rgb(96, 190,  
13) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.3100, 39.3428, 6.7461 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(96, 190, 13) }
```

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

```
.background{ background-color: rgb(96, 190,  
13) }
```

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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