

# Converting Colors

XYZ(36.9689, 39.7817, 10.2372)

Have a look what the booklet for  
XYZ(36.9689, 39.7817, 10.2372)  
contains.

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# Color

**XYZ(36.8645, 39.6905,  
10.2755)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C1A83E
RGB	193, 168, 62
RGB Percent	76%, 66%, 24%
CMY	0.2431, 0.3412, 0.7568
CMYK	0.00, 0.13, 0.68, 0.24
HSL	49°, 51%, 50%
HSV	49°, 68%, 76%
XYZ	36.8645, 39.6905, 10.2755
YIQ	163.3910, 48.9260, -27.6660

# Conversions

## Conversions Part 2

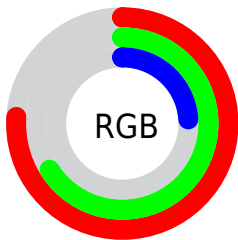
Format	Color
R <sub>Y</sub> B	93, 193, 62
Decimal	12691518
CIE Lab	69.25, -2.81, 55.92
CIE LCh	69, 55.994, 92.881
Yxy	39.6905, 0.4246, 0.4571
Android (android.graphics.Color)	4290881598 (0xFFC1A83E)
YUV	163.3910, -49.9858, 25.9671
Hunter-Lab	63.0004, -5.8019, 34.4300

# Details

The XYZ color **36.8645, 39.6905, 10.2755** is a dark color, and the websafe version is hex **CC9933**. The color can be described as middle muted orange. A complement of this color would be **15.0205, 11.6906, 51.9168**, and the grayscale version is **35.2116, 37.0454, 40.3424**.

A 20% lighter version of the original color is **69.6271, 74.7086, 26.9701**, and **16.3987, 17.7250, 2.5570** is the 20% darker color. If you saturate the color by 10%, you get **35.7561, 38.1762, 7.7413**, and if you desaturate by 10%, it is **38.1820, 41.3223, 13.8080**.

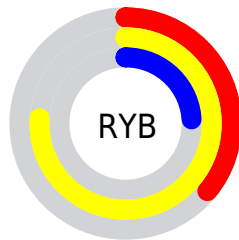
# Distribution



Red (76%)

Green (66%)

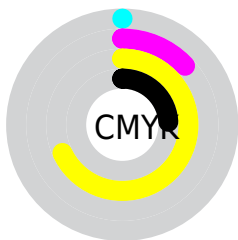
Blue (24%)



Red (36%)

Yellow (76%)

Blue (24%)

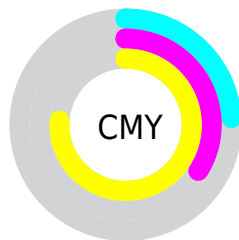


Cyan (0%)

Magenta (13%)

Yellow (68%)

Black (24%)



Cyan (24%)

Magenta (34%)


Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.8645, 39.6905, 10.2755 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 36.8645, 39.6905, 10.2755 by changing the saturation by 10% instead.





 36.8645, 39.6905,  
10.2755


 36.8645, 39.6905,  
10.2755


324.0892,  
344.8173, 203.1829


 25.2758, 27.2973,  
5.4740


 69.6795, 74.6920,  
26.9283

 16.4125, 17.7966,  
2.4644

 91.6365, 98.0691,  
39.6167

 9.9092, 10.8041,  
0.8212


 117.7804,  
125.8763, 55.7711

 5.4006, 5.9353,  
0.0000

 148.4764,  
158.4979, 75.8101

 2.5213, 2.8057,  
0.0000

 184.0899,  
196.3185, 100.1523

 0.9060, 1.0312,  
0.0000

224.9863,

 0.0000, 0.0000,

239.7223, 129.2161

0.0000

271.5310,  
289.0938, 163.4202

■ 36.8645, 39.6905,  
10.2755

■ 36.8645, 39.6905,  
10.2755

■ 35.7561, 38.1762,  
7.7413

■ 38.1820, 41.3223,  
13.8080

■ 34.8330, 36.7650,  
6.0924

■ 39.7239, 43.0735,  
18.4306

■ 34.0645, 35.4460,  
5.1642

■ 41.5072, 44.9524,  
24.2276

■ 33.9100, 35.1730,  
5.0018

■ 43.5462, 46.9653,  
31.2741

■ 45.8543, 49.1175,  
39.6392

■ 48.4436, 51.4142,  
49.3867

■ 51.3256, 53.8603,  
60.5763

■ 54.5112, 56.4603,  
73.2642

■ 58.0106, 59.2185,  
87.5038

# Harmonies

## Analogous

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



46.1449, 39.6905, 12.4764



36.8645, 39.6905, 10.2755



29.1150, 39.6905, 13.5924

# Triad

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



36.8645, 39.6905, 10.2755



25.0157, 39.6905, 75.9588



55.2509, 39.6905, 69.8674

# Complementary

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



36.8645, 39.6905, 10.2755



15.0205, 11.6906, 51.9168

# 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.



47.8834, 39.6905, 99.3815



36.8645, 39.6905, 10.2755



30.3965, 39.6905, 103.7693

# Square

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



36.8645, 39.6905, 10.2755



22.9887, 39.6905, 45.7463



38.5980, 39.6905, 113.6950



57.7034, 39.6905, 40.7811



# Rectangle

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



36.8645, 39.6905, 10.2755



25.5762, 39.6905, 19.7370



38.5980, 39.6905, 113.6950



53.2151, 39.6905, 80.4007

# Sweetspot

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



36.8654, 39.6924, 10.2763



81.0717, 87.0064, 67.1155



25.4849, 15.4910, 10.9234



17.1380, 18.4298, 13.4715



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.



36.8654, 39.6924, 10.2763



63.2746, 67.2412, 12.3844



33.2091, 45.3284, 11.5569



10.7448, 11.4211, 10.7000



22.6098, 23.5053, 3.3453



1.0199, 1.1017, 0.1589



# Inverse Universe

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



15.0205, 11.6906, 51.9168



21.7703, 14.1838, 91.9506



16.7492, 10.0800, 51.5148



9.6804, 10.0521, 12.7149



6.8832, 3.5228, 33.8738



0.3453, 0.2480, 1.4795



# Previews

## White Background



This preview shows how the XYZ color 36.8645, 39.6905, 10.2755 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

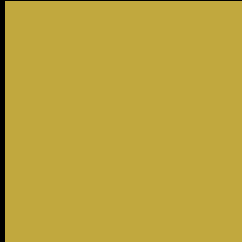
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.8645, 39.6905, 10.2755 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 36.8645, 39.6905, 10.2755**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.8645, 39.6905, 10.2755.



This preview shows how white text looks on a background with the XYZ color 36.8645, 39.6905,



# 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

36.8645, 39.6905, 10.2755

### Protanopia

36.0437, 39.5426, 10.2902

### Deuteranopia

40.5343, 39.7088, 10.3787



## Tritanopia

43.5755, 39.5351, 42.8705

# Trichromacy



## Original Color

36.8645, 39.6905, 10.2755

## Protanomaly

36.2927, 39.6709, 10.3018

## Deuteranomaly

39.0745, 39.7472, 10.3151

## Tritanomaly

40.3273, 39.2436, 26.5684

# Monochromacy



## Original Color

36.8645, 39.6905, 10.2755

## Achromatopsia

34.8123, 36.6253, 39.8849

## Achromatomaly

34.6766, 37.4153, 25.1329

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.8645, 39.6905, 10.2755 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(193, 168, 62)` looks like.

```
.text, #text, p{  
    color:rgb(193, 168, 62)  
}
```

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(193, 168, 62) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 168, 62) }
```

## Border

The CSS property to change the border of an element to XYZ 36.8645, 39.6905, 10.2755 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(193, 168, 62) }
```



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

```
.border{ border-color:rgb(193, 168, 62) }
```

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

Here you see how a box with a 4 pixel `rgb(193, 168, 62)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 168, 62); -webkit-box-  
shadow:4px 4px 4px 4px rgb(193, 168, 62);  
box-shadow:4px 4px 4px 4px rgb(193, 168,  
62) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.8645, 39.6905, 10.2755 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(193, 168, 62) }
```

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

```
.background{ background-color: rgb(193,  
168, 62) }
```

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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