

# Converting Colors

XYZ(23.6508, 36.4204, 19.4745)

Have a look what the booklet for  
XYZ(23.6508, 36.4204, 19.4745)  
contains.

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# Color

**XYZ(23.6396, 36.4155,  
19.4186)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5DB56A
RGB	93, 181, 106
RGB Percent	36%, 71%, 42%
CMY	0.6353, 0.2902, 0.5843
CMYK	0.49, 0.00, 0.41, 0.29
HSL	129°, 37%, 54%
HSV	129°, 49%, 71%
XYZ	23.6396, 36.4155, 19.4186
YIQ	146.1380, -28.3730, -41.9810

# Conversions

## Conversions Part 2

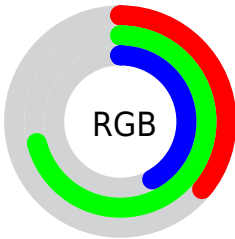
<b>Format</b>	<b>Color</b>
<b>RYB</b>	93, 170, 181
Decimal	6141290
CIELab	66.84, -42.61, 30.24
CIElCh	67, 52.255, 144.635
Yxy	36.4155, 0.2975, 0.4582
Android (android.graphics.Color)	4284331370 (0xFF5DB56A)
YUV	146.1380, -19.7880, -46.6020
Hunter-Lab	60.3453, -35.6788, 23.1627

# Details

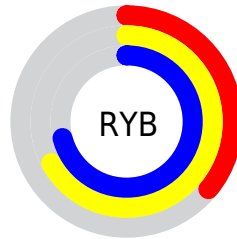
The XYZ color **23.6396, 36.4155, 19.4186** is a dark color, and the websafe version is hex **66CC66**. A complement of this color would be **30.0394, 20.4803, 39.4169**, and the grayscale version is **27.4660, 28.8963, 31.4681**.

A 20% lighter version of the original color is **48.9588, 69.9136, 43.2620**, and **8.9876, 15.8142, 6.4497** is the 20% darker color. If you saturate the color by 10%, you get **21.2885, 35.2890, 15.4913**, and if you desaturate by 10%, it is **26.5704, 37.8263, 24.1280**.

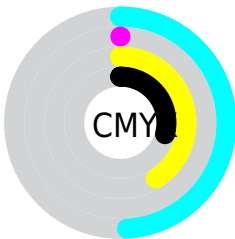
# Distribution



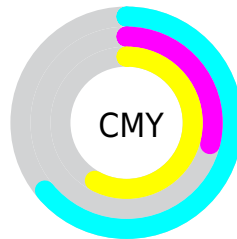
- Red (36%)
- Green (71%)
- Blue (42%)



- Red (36%)
- Yellow (67%)
- Blue (71%)



- Cyan (49%)
- Magenta (0%)
- Yellow (41%)
- Black (29%)



- Cyan (64%)
- Magenta (29%)
- Yellow (58%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.6396, 36.4155, 19.4186 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 23.6396, 36.4155, 19.4186 by changing the saturation by 10% instead.



■ 23.6396, 36.4155,  
19.4186

■ 23.6396, 36.4155,  
19.4186

263.4677,  
330.7730, 261.2493

■ 15.1898, 24.7553,  
11.7933

■ 48.9004, 69.6729,  
43.2863

■ 9.0399, 15.8948,  
6.4822

■ 66.4421, 92.0389,  
60.3658

■ 4.8245, 9.4498,  
3.0670

■ 87.7451, 118.7422,  
81.4337

■ 2.1784, 5.0357,  
1.1289

■ 113.1748,  
150.1672, 106.9087

■ 0.7313, 2.2682,  
0.0000

143.0966,  
186.6985, 137.2092

■ 0.0000, 0.7568,  
0.0000

177.8758,

■ 0.0000, 0.0000,

228.7202, 172.7538

0.0000

217.8777,  
276.6169, 213.9610

■ 23.6396, 36.4155,  
19.4186

■ 23.6396, 36.4155,  
19.4186

■ 21.2885, 35.2890,  
15.4913

■ 26.5704, 37.8263,  
24.1280

■ 19.4757, 34.4232,  
12.3013

■ 30.1135, 39.5341,  
29.6560

■ 18.1583, 33.7980,  
9.8033


■ 34.3020, 41.5564,  
36.0399


■ 17.2856, 33.3883,  
7.9458


■ 39.1661, 43.9080,  
43.3138


■ 16.7760, 33.1533,  
6.6691

■ 44.7340, 46.6027,  
51.5102

 16.7194, 33.1271,  
6.5342

 51.0323, 49.6535,  
60.6598

 58.0860, 53.0729,  
70.7918

 65.9192, 56.8726,  
81.9344

 74.2214, 60.8919,  
94.0988

# Harmonies

## Analogous

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



28.6560, 36.4155, 11.7884



23.6396, 36.4155, 19.4186



21.5795, 36.4155, 35.7188

# Triad

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



23.6396, 36.4155, 19.4186



33.2104, 36.4155, 100.6817



50.3441, 36.4155, 24.1350

# Complementary

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



23.6396, 36.4155, 19.4186



30.0394, 20.4803, 39.4169

# 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.



52.0533, 36.4155, 43.8602



23.6396, 36.4155, 19.4186



41.3406, 36.4155, 93.8255

# Square

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



23.6396, 36.4155, 19.4186



26.5404, 36.4155, 86.7836



48.5421, 36.4155, 70.5503



44.1733, 36.4155, 13.6955



# Rectangle

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



23.6396, 36.4155, 19.4186



21.8923, 36.4155, 51.6943



48.5421, 36.4155, 70.5503



51.4955, 36.4155, 29.6393

# Sweetspot

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



23.6405, 36.4170, 19.4194



64.2283, 75.7750, 68.7511



34.9205, 42.3044, 16.6813



13.5065, 16.1962, 14.2953



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787



# Same Dimension

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



23.6405, 36.4170, 19.4194



37.9963, 63.1374, 27.5218



26.4426, 37.5379, 34.1752



8.4385, 9.5099, 9.3025



11.5419, 22.8427, 4.5907



0.3791, 0.7251, 0.2282



# Inverse Universe

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



30.0394, 20.4803, 39.4169



50.7480, 31.3100, 67.3212



26.6902, 19.1406, 21.7799



8.7950, 8.6247, 10.4188



17.1928, 8.3947, 21.9732



0.5556, 0.2700, 0.7684



# Previews

## White Background



This preview shows how the XYZ color 23.6396, 36.4155, 19.4186 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 23.6396, 36.4155, 19.4186 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 23.6396, 36.4155, 19.4186**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.6396, 36.4155, 19.4186.



This preview shows how white text looks on a background with the XYZ color 23.6396, 36.4155,



# 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

23.6396, 36.4155, 19.4186

### Protanopia

33.3039, 36.0886, 17.0149

### Deuteranopia

36.6383, 35.9500, 20.3372



## Tritanopia

30.0650, 36.3873, 51.3378

# Trichromacy



## Original Color

23.6396, 36.4155, 19.4186



## Protanomaly

28.4403, 35.4462, 17.9132



## Deuteranomaly

29.9946, 34.8448, 19.8967



## Tritanomaly

27.0396, 36.0033, 36.9767

# Monochromacy



## Original Color

23.6396, 36.4155, 19.4186



## Achromatopsia

27.3213, 28.7441, 31.3023



## Achromatomaly

25.2473, 30.9470, 26.1154

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.6396, 36.4155, 19.4186 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(93, 181, 106)` looks like.

```
.text, #text, p{  
    color:rgb(93, 181, 106)  
}
```

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(93, 181, 106) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(93, 181, 106) }
```

## Border

The CSS property to change the border of an element to XYZ 23.6396, 36.4155, 19.4186 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(93, 181, 106) }
```



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

```
.border{ border-color:rgb(93, 181, 106) }
```

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

Here you see how a box with a 4 pixel rgb(93, 181, 106) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(93, 181, 106); -webkit-box-  
shadow:4px 4px 4px 4px rgb(93, 181, 106);  
box-shadow:4px 4px 4px 4px rgb(93, 181,  
106) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.6396, 36.4155, 19.4186 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(93, 181, 106) }
```

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

```
.background{ background-color: rgb(93, 181,  
106) }
```

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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