

Converting Colors

XYZ(23.4421, 16.1027, 2.4775)

Have a look what the booklet for
XYZ(23.4421, 16.1027, 2.4775)
contains.

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Color

**XYZ(23.3354, 16.0606,
2.4862)**

Conversions

Conversions Part 1

Format	Color
Hex	BB4E13
RGB	187, 78, 19
RGB Percent	73%, 31%, 7%
CMY	0.2667, 0.6941, 0.9255
CMYK	0.00, 0.58, 0.90, 0.27
HSL	21°, 82%, 40%
HSV	21°, 90%, 73%
XYZ	23.3354, 16.0606, 2.4862
YIQ	103.8650, 83.9030, 4.7590

Conversions

Conversions Part 2

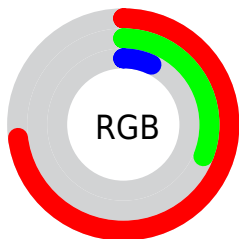
Format	Color
R_{YB}	187, 110, 19
Decimal	12275219
CIE _{Lab}	47.05, 41.30, 51.97
CIE _{LCh}	47, 66.386, 51.528
Yxy	16.0606, 0.5572, 0.3835
Android (android.graphics.Color)	4290465299 (0xFFBB4E13)
YUV	103.8650, -41.8384, 72.9094
Hunter-Lab	40.0757, 33.8051, 24.3748

Details

The XYZ color **23.3354, 16.0606, 2.4862** is a dark color, and the websafe version is hex **CC6633**. A complement of this color would be **16.9566, 19.1632, 49.8183**, and the grayscale version is **13.2153, 13.9036, 15.1410**.

A 20% lighter version of the original color is **48.5125, 36.7315, 10.3273**, and **8.9518, 5.1309, 0.5185** is the 20% darker color. If you saturate the color by 10%, you get **22.4359, 14.4472, 1.6148**, and if you desaturate by 10%, it is **24.5063, 18.0385, 3.9988**.

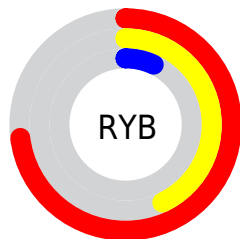
Distribution



Red (73%)

Green (31%)

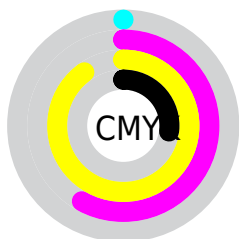
Blue (7%)



Red (73%)

Yellow (43%)

Blue (7%)

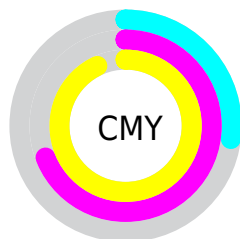


Cyan (0%)

Magenta (58%)

Yellow (90%)

Black (27%)



Cyan (27%)


Magenta (69%)


Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.3354, 16.0606, 2.4862 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 23.3354, 16.0606, 2.4862 by changing the saturation by 10% instead.


 23.3354, 16.0606,
2.4862


 23.3354, 16.0606,
2.4862


261.9463,
229.6990, 129.5206


 14.9634, 9.5670,
0.8328


 48.4061, 36.7034,
10.3319


 8.8799, 5.1129,
0.0000


 65.8355, 51.6214,
17.3671

 4.7194, 2.3136,
0.0000

 87.0148, 70.1163,
27.0354

 2.1166, 0.7809,
0.0000

 112.3092, 92.5726,
39.7552


 0.6982, 0.0000,
0.0000


 142.0843,
119.3747, 55.9450


 0.0000, 0.0000,
0.0000


 176.7052,


150.9068, 76.0235


 216.5374,
187.5535, 100.4092


 23.3354, 16.0606,
2.4862


 23.3354, 16.0606,
2.4862


 22.4359, 14.4472,
1.6148


 24.5063, 18.0385,
3.9988

 22.4228, 14.4237,
1.6022

 25.9951, 20.4103,
6.3627

 27.8297, 23.1999,
9.6862

 30.0343, 26.4283,
14.0614

 32.6305, 30.1148,
19.5692

■ 35.6381, 34.2775,
26.2825

■ 39.0754, 38.9335,
34.2682

■ 42.9597, 44.0989,
43.5882

■ 47.3071, 49.7891,
54.3002

Harmonies

Analogous

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



28.2141, 16.0606, 8.1692



23.3354, 16.0606, 2.4862



16.9732, 16.0606, 1.0861

Triad

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



23.3354, 16.0606, 2.4862



6.6590, 16.0606, 13.1792



19.7487, 16.0606, 67.4217

Complementary

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



23.3354, 16.0606, 2.4862



16.9566, 19.1632, 49.8183

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.



13.6757, 16.0606, 72.1639



23.3354, 16.0606, 2.4862



7.0448, 16.0606, 32.0735

Square

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



23.3354, 16.0606, 2.4862



8.0756, 16.0606, 4.1696



9.3099, 16.0606, 56.4696



25.8041, 16.0606, 45.9484

Rectangle

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



23.3354, 16.0606, 2.4862



13.1371, 16.0606, 1.1333



9.3099, 16.0606, 56.4696



17.6114, 16.0606, 71.4036

Sweetspot

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



23.3358, 16.0615, 2.4865



65.2355, 63.3126, 50.2950



24.6357, 12.5943, 21.6238



13.9268, 13.3423, 10.0720



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

Same Dimension

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



23.3358, 16.0615, 2.4865



39.9590, 25.4318, 2.8028



33.4959, 36.3818, 5.8732



9.7969, 10.0698, 10.0040



15.5117, 10.0621, 1.1246



0.6699, 0.5187, 0.0648

Inverse Universe

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



16.9566, 19.1632, 49.8183



28.1496, 30.5959, 88.6233



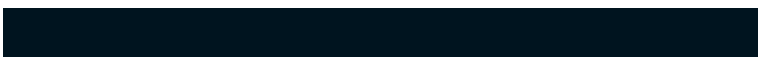
10.1464, 5.5427, 47.5482



9.5189, 10.2301, 12.1451



10.9879, 12.0875, 34.1469



0.4896, 0.5920, 1.3573

Previews

White Background



This preview shows how the XYZ color 23.3354, 16.0606, 2.4862 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 23.3354, 16.0606, 2.4862 looks on a black 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

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

XYZ 23.3354, 16.0606, 2.4862

Background



This preview shows how black text looks on a background with the XYZ color 23.3354, 16.0606, 2.4862.



This preview shows how white text looks on a background with the XYZ color 23.3354, 16.0606,

2.4862.

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

23.3354, 16.0606, 2.4862

Protanopia

14.7189, 16.3297, 3.4748

Deuteranopia

16.4130, 16.2662, 2.2746



Tritanopia

24.7084, 16.1197, 8.8303

Trichromacy



Original Color

23.3354, 16.0606, 2.4862

Protanomaly

16.9454, 15.4804, 3.0146

Deuteranomaly

18.3218, 15.6502, 2.2561

Tritanomaly

23.9689, 16.0090, 5.5681

Monochromacy



Original Color

23.3354, 16.0606, 2.4862

Achromatopsia

13.1579, 13.8432, 15.0752

Achromatomaly

15.1263, 13.7338, 8.1570

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.3354, 16.0606, 2.4862 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(187, 78, 19)` looks like.

```
.text, #text, p{  
    color:rgb(187, 78, 19)  
}
```

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(187, 78, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 78, 19) }
```

Border

The CSS property to change the border of an element to XYZ 23.3354, 16.0606, 2.4862 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(187, 78, 19) }
```


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

```
.border{ border-color:rgb(187, 78, 19) }
```

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

Here you see how a box with a 4 pixel rgb(187, 78, 19) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 78, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 78, 19);  
box-shadow:4px 4px 4px 4px rgb(187, 78,  
19) }
```

Background

The CSS property to change the background color of an element to XYZ 23.3354, 16.0606, 2.4862 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 78, 19) }
```

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

```
.background{ background-color: rgb(187, 78,  
19) }
```

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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