

Converting Colors

XYZ(16.0077, 23.3734, 6.8363)

Have a look what the booklet for
XYZ(16.0077, 23.3734, 6.8363)
contains.

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Color

**XYZ(16.0220, 23.4494,
6.8137)**

Conversions

Conversions Part 1

Format	Color
Hex	639233
RGB	99, 146, 51
RGB Percent	39%, 57%, 20%
CMY	0.6118, 0.4274, 0.8000
CMYK	0.32, 0.00, 0.65, 0.43
HSL	90°, 48%, 39%
HSV	90°, 65%, 57%
XYZ	16.0220, 23.4494, 6.8137
YIQ	121.1170, 2.4830, -39.5090

Conversions

Conversions Part 2

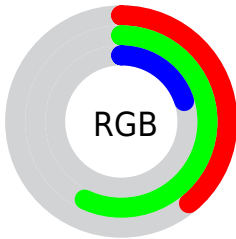
Format	Color
RYB	51, 146, 98
Decimal	6525491
CIELab	55.53, -32.13, 43.93
CIElCh	56, 54.422, 126.178
Yxy	23.4494, 0.3462, 0.5066
Android (android.graphics.Color)	4284715571 (0xFF639233)
YUV	121.1170, -34.5677, -19.3966
Hunter-Lab	48.4246, -25.6836, 25.5547

Details

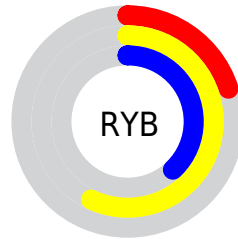
The XYZ color **16.0220, 23.4494, 6.8137** is a dark color, and the websafe version is hex **669933**. A complement of this color would be **11.4102, 7.0403, 27.9529**, and the grayscale version is **18.3201, 19.2742, 20.9896**.

A 20% lighter version of the original color is **36.1894, 49.0402, 20.1287**, and **5.2645, 8.7888, 1.4189** is the 20% darker color. If you saturate the color by 10%, you get **14.9953, 22.9524, 5.3414**, and if you desaturate by 10%, it is **17.2216, 24.0253, 8.8228**.

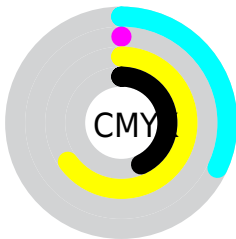
Distribution



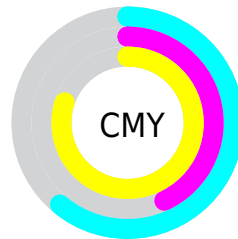
- Red (39%)
- Green (57%)
- Blue (20%)



- Red (20%)
- Yellow (57%)
- Blue (38%)



- Cyan (32%)
- Magenta (0%)
- Yellow (65%)
- Black (43%)



- Cyan (61%)
- Magenta (43%)
- Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.0220, 23.4494, 6.8137 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 16.0220, 23.4494, 6.8137 by changing the saturation by 10% instead.

■ 16.0220, 23.4494,
6.8137

■ 16.0220, 23.4494,
6.8137

222.7393,
270.0249, 175.6784

■ 9.6307, 14.9257,
3.2692

■ 36.1935, 49.1302,
20.1039

■ 5.2152, 8.7673,
1.2337

■ 50.7044, 67.0561,
30.6866

■ 2.4101, 4.5897,
0.0065

■ 68.6526, 88.8848,
44.4525

■ 0.8501, 2.0086,
0.0000

■ 90.4033, 115.0008,
61.8201

■ 0.0000, 0.6125,
0.0000

■ 116.3220,
145.7883, 83.2080

■ 0.0000, 0.0000,
0.0000

■ 146.7740,

181.6320, 109.0346

182.1247,
222.9160, 139.7186

■ 16.0220, 23.4494,
6.8137

■ 16.0220, 23.4494,
6.8137

■ 14.9953, 22.9524,
5.3414

■ 17.2216, 24.0253,
8.8228

■ 14.1281, 22.5263,
4.3525

■ 18.6026, 24.6814,
11.4124

■ 13.4060, 22.1660,
3.7787

■ 20.1752, 25.4226,
14.6235

■ 13.0854, 22.0053,
3.5578

■ 21.9478, 26.2527,
18.4928

■ 23.9286, 27.1748,
23.0544

■ 26.1249, 28.1924,
28.3397

■ 28.5441, 29.3084,
34.3785

■ 31.1929, 30.5257,
41.1988

■ 34.0776, 31.8469,
48.8271

Harmonies

Analogous

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



21.0418, 23.4494, 4.5152



16.0220, 23.4494, 6.8137



13.1410, 23.4494, 14.1695

Triad

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



16.0220, 23.4494, 6.8137



17.8530, 23.4494, 70.6134



36.2006, 23.4494, 22.0649

Complementary

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



16.0220, 23.4494, 6.8137



11.4102, 7.0403, 27.9529

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.



34.9214, 23.4494, 41.7614



16.0220, 23.4494, 6.8137



23.5824, 23.4494, 76.0331

Square

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



16.0220, 23.4494, 6.8137



14.0545, 23.4494, 51.1324



30.0056, 23.4494, 63.6861



33.2359, 23.4494, 10.3264

Rectangle

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



16.0220, 23.4494, 6.8137



12.4645, 23.4494, 23.3452



30.0056, 23.4494, 63.6861



36.2591, 23.4494, 27.8522

Sweetspot

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



16.0226, 23.4504, 6.8142



40.2993, 47.0484, 36.2184



16.7195, 14.8849, 5.1242



8.7742, 10.3775, 7.6213



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844

Same Dimension

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



16.0226, 23.4504, 6.8142



25.7285, 40.1345, 8.5359



12.3235, 21.5435, 6.6411



5.9921, 6.6038, 6.1993



11.5404, 19.3772, 3.1319



0.1752, 0.2547, 0.0399

Inverse Universe

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



11.4102, 7.0403, 27.9529



16.9470, 8.8828, 48.7949



17.9476, 10.4105, 28.2589



5.7564, 5.7654, 7.2792



6.9587, 3.0599, 24.1549



0.1191, 0.0549, 0.2972

Previews

White Background



This preview shows how the XYZ color 16.0220, 23.4494, 6.8137 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 16.0220, 23.4494, 6.8137 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 16.0220, 23.4494, 6.8137

Background



This preview shows how black text looks on a background with the XYZ color 16.0220, 23.4494, 6.8137.



This preview shows how white text looks on a background with the XYZ color 16.0220, 23.4494,

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

16.0220, 23.4494, 6.8137

Protanopia

21.1134, 23.2762, 6.0693

Deuteranopia

23.5092, 23.1096, 7.0924



Tritanopia

20.9730, 23.4742, 31.4425

Trichromacy



Original Color

16.0220, 23.4494, 6.8137

Protanomaly

18.8279, 23.1362, 6.2697

Deuteranomaly

19.8923, 22.6263, 6.9333

Tritanomaly

18.4221, 23.0742, 19.1056

Monochromacy



Original Color

16.0220, 23.4494, 6.8137

Achromatopsia

18.1737, 19.1202, 20.8219

Achromatomaly

16.9040, 20.3205, 14.0976

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.0220, 23.4494, 6.8137 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(99, 146, 51)` looks like.

```
.text, #text, p{  
    color:rgb(99, 146, 51)  
}
```

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(99, 146, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 146, 51) }
```

Border

The CSS property to change the border of an element to XYZ 16.0220, 23.4494, 6.8137 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(99, 146, 51) }
```


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

```
.border{ border-color:rgb(99, 146, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 146, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 146, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 146, 51);  
box-shadow:4px 4px 4px 4px rgb(99, 146,  
51) }
```

Background

The CSS property to change the background color of an element to XYZ 16.0220, 23.4494, 6.8137 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 146, 51) }
```

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

```
.background{ background-color: rgb(99, 146,  
51) }
```

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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