

Converting Colors

XYZ(12.6563, 15.5165, 30.8018)

Have a look what the booklet for
XYZ(12.6563, 15.5165, 30.8018)
contains.

XYZ(12.6308, 15.5019, 30.7602)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.6308, 15.5019,
30.7602)**

Conversions

Conversions Part 1

Format	Color
Hex	247695
RGB	36, 118, 149
RGB Percent	14%, 46%, 58%
CMY	0.8588, 0.5372, 0.4157
CMYK	0.76, 0.21, 0.00, 0.42
HSL	196°, 61%, 36%
HSV	196°, 76%, 58%
XYZ	12.6308, 15.5019, 30.7602
YIQ	97.0160, -58.8230, -7.7430

Conversions

Conversions Part 2

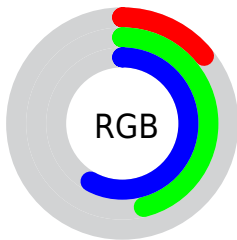
Format	Color
R_{YB}	36, 84, 149
Decimal	2389653
CIE _{Lab}	46.31, -13.44, -23.79
CIE _{LCh}	46, 27.328, 240.536
Yxy	15.5019, 0.2145, 0.2632
Android (android.graphics.Color)	4280579733 (0xFF247695)
YUV	97.0160, 25.6281, -53.5110
Hunter-Lab	39.3725, -11.6385, -18.7603

Details

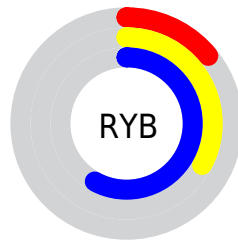
The XYZ color **12.6308, 15.5019, 30.7602** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **14.7206, 10.5321, 2.9267**, and the grayscale version is **11.3163, 11.9057, 12.9653**.

A 20% lighter version of the original color is **30.1912, 35.6579, 61.7913**, and **4.3948, 5.2622, 12.3393** is the 20% darker color. If you saturate the color by 10%, you get **11.7440, 14.3458, 30.5841**, and if you desaturate by 10%, it is **13.7560, 16.8124, 30.9542**.

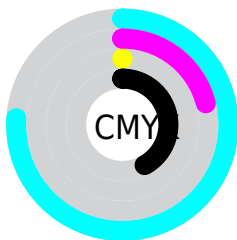
Distribution



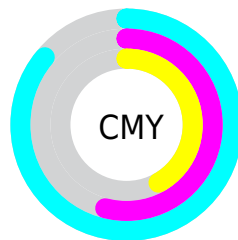
- Red (14%)
- Green (46%)
- Blue (58%)



- Red (14%)
- Yellow (33%)
- Blue (58%)



- Cyan (76%)
- Magenta (21%)
- Yellow (0%)
- Black (42%)



- Cyan (86%)
- Magenta (54%)
- Yellow (42%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.6308, 15.5019, 30.7602 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 12.6308, 15.5019, 30.7602 by changing the saturation by 10% instead.

■ 12.6308, 15.5019,
30.7602

■ 12.6308, 15.5019,
30.7602

202.2236,
226.3843, 319.7490

■ 7.2500, 9.1724,
20.1594

■ 30.2459, 35.7313,
61.9375

■ 3.6667, 4.8538,
12.3257

■ 43.2109, 50.3999,
83.3510

■ 1.5153, 2.1617,
6.8407

■ 59.4348, 68.6171,
109.2059

■ 0.3362, 0.6990,
3.2857

■ 79.2828, 90.7672,
139.9206

■ 0.0000, 0.0000,
1.2423

■ 103.1203,
117.2345, 175.9137

■ 0.0000, 0.0000,
0.0138

■ 131.3127,

■ 0.0000, 0.0000,

148.4036, 217.6038

0.0000

164.2253,
184.6587, 265.4094

■ 12.6308, 15.5019,
30.7602

■ 12.6308, 15.5019,
30.7602

■ 11.7440, 14.3458,
30.5841

■ 13.7560, 16.8124,
30.9542

■ 11.0598, 13.3244,
30.4230

■ 15.1422, 18.2886,
31.1660

■ 10.8005, 12.9211,
30.3588

■ 16.8111, 19.9422,
31.3972

■ 18.7815, 21.7834,
31.6488

■ 21.0704, 23.8212,
31.9215

■ 23.6937, 26.0642,
32.2162

■ 26.6661, 28.5203,
32.5336

■ 30.0013, 31.1970,
32.8744

■ 33.7124, 34.1013,
33.2394

Harmonies

Analogous

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



11.1900, 15.5019, 24.3053



12.6308, 15.5019, 30.7602



14.7762, 15.5019, 33.3123

Triad

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



12.6308, 15.5019, 30.7602



19.7043, 15.5019, 16.7587



12.5651, 15.5019, 8.0381

Complementary

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



12.6308, 15.5019, 30.7602



14.7206, 10.5321, 2.9267

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.



14.6921, 15.5019, 6.9975



12.6308, 15.5019, 30.7602



18.9571, 15.5019, 11.1441

Square

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



12.6308, 15.5019, 30.7602



19.0069, 15.5019, 24.0401



17.0588, 15.5019, 7.9649



11.1550, 15.5019, 11.3031

Rectangle

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



12.6308, 15.5019, 30.7602



16.3687, 15.5019, 32.0418



17.0588, 15.5019, 7.9649



13.2121, 15.5019, 7.4622

Sweetspot

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



12.6313, 15.5024, 30.7606



38.7912, 43.5775, 57.2880



12.4628, 22.2653, 8.8165



8.2726, 9.3757, 12.6585



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896

Same Dimension

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



12.6313, 15.5024, 30.7606



20.1436, 24.3880, 54.5669



7.8956, 6.0310, 29.1820



5.8310, 6.2959, 7.3776



9.1155, 10.9259, 25.5595



0.1362, 0.1830, 0.3211

Inverse Universe

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



16.2958, 8.9599, 18.0107



27.5473, 13.9149, 28.1911



19.7509, 20.5927, 4.6035



5.9681, 5.8823, 6.9383



12.7282, 6.2963, 12.5815



0.1682, 0.0820, 0.2195

Previews

White Background



This preview shows how the XYZ color 12.6308, 15.5019, 30.7602 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 12.6308, 15.5019, 30.7602 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

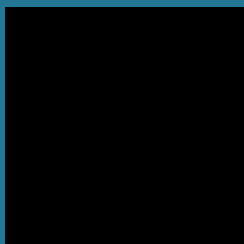
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.6308, 15.5019, 30.7602

Background



This preview shows how black text looks on a background with the XYZ color 12.6308, 15.5019, 30.7602.

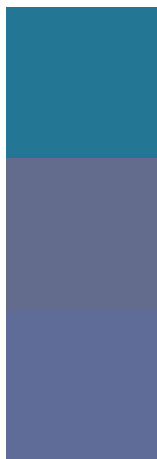


This preview shows how white text looks on a background with the XYZ color 12.6308, 15.5019,

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

12.6308, 15.5019, 30.7602

Protanopia

15.4258, 15.3575, 27.3506

Deuteranopia

15.6678, 15.3924, 31.4234



Tritanopia

11.1653, 15.4326, 23.8630

Trichromacy



Original Color

12.6308, 15.5019, 30.7602

Protanomaly

13.8888, 15.1797, 28.5835

Deuteranomaly

14.1232, 15.2462, 31.0526

Tritanomaly

11.6806, 15.4621, 26.4136

Monochromacy



Original Color

12.6308, 15.5019, 30.7602

Achromatopsia

11.3621, 11.9538, 13.0177

Achromatomaly

11.1056, 12.8600, 18.4199

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.6308, 15.5019, 30.7602 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(36, 118, 149)` looks like.

```
.text, #text, p{  
    color:rgb(36, 118, 149)  
}
```

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(36, 118, 149) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(36, 118, 149) }
```

Border

The CSS property to change the border of an element to XYZ 12.6308, 15.5019, 30.7602 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(36, 118, 149) }
```


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

```
.border{ border-color:rgb(36, 118, 149) }
```

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

Here you see how a box with a 4 pixel `rgb(36, 118, 149)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(36, 118, 149); -webkit-box-  
shadow:4px 4px 4px 4px rgb(36, 118, 149);  
box-shadow:4px 4px 4px 4px rgb(36, 118,  
149) }
```

Background

The CSS property to change the background color of an element to XYZ 12.6308, 15.5019, 30.7602 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(36, 118, 149) }
```

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

```
.background{ background-color: rgb(36, 118,  
149) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor