

Converting Colors

XYZ(12.2853, 15.2018, 20.0086)

Have a look what the booklet for
XYZ(12.2853, 15.2018, 20.0086)
contains.

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Color

**XYZ(12.3080, 15.2246,
20.0592)**

Conversions

Conversions Part 1

Format	Color
Hex	487478
RGB	72, 116, 120
RGB Percent	28%, 45%, 47%
CMY	0.7176, 0.5451, 0.5294
CMYK	0.40, 0.03, 0.00, 0.53
HSL	185°, 25%, 38%
HSV	185°, 40%, 47%
XYZ	12.3080, 15.2246, 20.0592
YIQ	103.3000, -27.5080, -8.0840

Conversions

Conversions Part 2

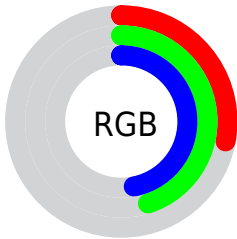
Format	Color
R_{YB}	72, 95, 120
Decimal	4748408
CIE _{Lab}	45.94, -14.02, -7.01
CIE _{LCh}	46, 15.677, 206.553
Yxy	15.2246, 0.2586, 0.3199
Android (android.graphics.Color)	4282938488 (0xFF487478)
YUV	103.3000, 8.2331, -27.4501
Hunter-Lab	39.0187, -11.9770, -3.1674

Details

The XYZ color **12.3080, 15.2246, 20.0592** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.5000, 9.6298, 7.3837**, and the grayscale version is **12.9560, 13.6307, 14.8438**.

A 20% lighter version of the original color is **29.6174, 35.1948, 44.2620**, and **3.5461, 4.7616, 6.8631** is the 20% darker color. If you saturate the color by 10%, you get **11.3848, 14.5789, 19.9835**, and if you desaturate by 10%, it is **13.4080, 15.9640, 20.1442**.

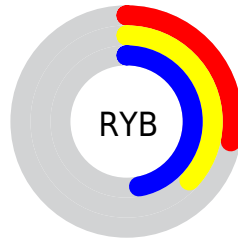
Distribution



Red (28%)

Green (45%)

Blue (47%)



Red (28%)

Yellow (37%)

Blue (47%)

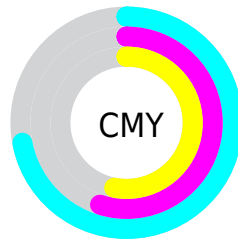


Cyan (40%)

Magenta (3%)

Yellow (0%)

Black (53%)



Cyan (72%)

Magenta (55%)

Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3080, 15.2246, 20.0592 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 12.3080, 15.2246, 20.0592 by changing the saturation by 10% instead.

■ 12.3080, 15.2246,
20.0592

■ 12.3080, 15.2246,
20.0592

200.1623,
224.7217, 264.8503

■ 7.0275, 8.9772,
12.2536

■ 29.6668, 35.2467,
44.3767

■ 3.5258, 4.7263,
6.7920

■ 42.4759, 49.7902,
61.7256

■ 1.4375, 2.0876,
3.2559

■ 58.5252, 67.8678,
83.0928

■ 0.2827, 0.6576,
1.2267

■ 78.1800, 89.8639,
108.8967

■ 0.0000, 0.0000,
0.0006

■ 101.8058,
116.1630, 139.5558

■ 0.0000, 0.0000,
0.0000

129.7679,

147.1494, 175.4887

162.4316,
183.2075, 217.1141

■ 12.3080, 15.2246,
20.0592

■ 12.3080, 15.2246,
20.0592

■ 11.3848, 14.5789,
19.9835

■ 13.4080, 15.9640,
20.1442

■ 10.6269, 14.0199,
19.9155

■ 14.6928, 16.8002,
20.2379

■ 10.0233, 13.5423,
19.8552

■ 16.1717, 17.7382,
20.3410

■ 9.5616, 13.1396,
19.8018

■ 17.8527, 18.7824,
20.4539

■ 9.2268, 12.8041,
19.7547

■ 19.7436, 19.9366,
20.5771

■ 8.9667, 12.5090,
19.7114

■ 21.8516, 21.2046,
20.7107

■ 8.9667, 12.5090,
19.7114

■ 24.1837, 22.5899,
20.8552

■ 26.7465, 24.0962,
21.0108

■ 29.5464, 25.7265,
21.1780

Harmonies

Analogous

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



12.0723, 15.2246, 16.1419



12.3080, 15.2246, 20.0592



13.1105, 15.2246, 23.4449

Triad

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



12.3080, 15.2246, 20.0592



16.7033, 15.2246, 20.9351



14.6244, 15.2246, 10.3055

Complementary

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



12.3080, 15.2246, 20.0592



11.5000, 9.6298, 7.3837

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.



15.9215, 15.2246, 11.2013



12.3080, 15.2246, 20.0592



17.1670, 15.2246, 17.0199

Square

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



12.3080, 15.2246, 20.0592



15.6402, 15.2246, 24.0024



16.8726, 15.2246, 13.5231



13.3607, 15.2246, 10.8667

Rectangle

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



12.3080, 15.2246, 20.0592



13.8858, 15.2246, 24.7391



16.8726, 15.2246, 13.5231



15.0715, 15.2246, 10.4423

Sweetspot

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



12.3085, 15.2252, 20.0596



27.8150, 30.8033, 35.7327



10.6660, 15.3216, 9.0880



6.5293, 7.2606, 8.4640



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256

Same Dimension

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



12.3085, 15.2252, 20.0596



20.1461, 25.7291, 35.1575



9.9597, 10.5276, 19.2766



4.0799, 4.4581, 5.0886



9.7771, 13.6367, 21.5021



46.3362, 64.4450, 102.4667

Inverse Universe

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



13.2158, 9.8890, 17.7360



22.0086, 15.0715, 30.3215



13.3965, 13.4228, 8.0159



4.1408, 4.0720, 4.9390



11.5184, 5.5835, 16.5525



54.7915, 26.5729, 78.1552

Previews

White Background



This preview shows how the XYZ color 12.3080, 15.2246, 20.0592 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 12.3080, 15.2246, 20.0592 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 12.3080, 15.2246, 20.0592

Background



This preview shows how black text looks on a background with the XYZ color 12.3080, 15.2246, 20.0592.



This preview shows how white text looks on a background with the XYZ color 12.3080, 15.2246,

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

12.3080, 15.2246, 20.0592

Protanopia

14.6414, 15.1511, 18.3724

Deuteranopia

15.3490, 15.1580, 20.5292



Tritanopia

12.5801, 15.1586, 21.6649

Trichromacy



Original Color

12.3080, 15.2246, 20.0592

Protanomaly

13.6146, 15.0861, 19.0240

Deuteranomaly

13.9569, 15.0737, 20.2631

Tritanomaly

12.4535, 15.1080, 20.9987

Monochromacy



Original Color

12.3080, 15.2246, 20.0592

Achromatopsia

12.8919, 13.5633, 14.7705

Achromatomaly

12.5365, 14.1046, 16.5297

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3080, 15.2246, 20.0592 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(72, 116, 120)` looks like.

```
.text, #text, p{  
    color:rgb(72, 116, 120)  
}
```

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(72, 116, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 116, 120) }
```

Border

The CSS property to change the border of an element to XYZ 12.3080, 15.2246, 20.0592 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(72, 116, 120) }
```


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

```
.border{ border-color:rgb(72, 116, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 116, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 116, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 116, 120);  
box-shadow:4px 4px 4px 4px rgb(72, 116,  
120) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3080, 15.2246, 20.0592 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 116, 120) }
```

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

```
.background{ background-color: rgb(72, 116,  
120) }
```

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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