

Converting Colors

XYZ(13.0112, 15.1422, 25.3039)

Have a look what the booklet for
XYZ(13.0112, 15.1422, 25.3039)
contains.

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Color

**XYZ(12.9890, 15.1235,
25.1562)**

Conversions

Conversions Part 1

Format	Color
Hex	477287
RGB	71, 114, 135
RGB Percent	28%, 45%, 53%
CMY	0.7216, 0.5529, 0.4706
CMYK	0.47, 0.16, 0.00, 0.47
HSL	200°, 31%, 40%
HSV	200°, 47%, 53%
XYZ	12.9890, 15.1235, 25.1562
YIQ	103.5370, -32.3690, -2.5850

Conversions

Conversions Part 2

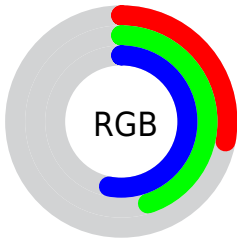
Format	Color
R_{YB}	71, 97, 135
Decimal	4682375
CIE _{Lab}	45.80, -8.85, -16.17
CIE _{LCh}	46, 18.430, 241.304
Yxy	15.1235, 0.2438, 0.2839
Android (android.graphics.Color)	4282872455 (0xFF477287)
YUV	103.5370, 15.5113, -28.5349
Hunter-Lab	38.8889, -8.4362, -11.1308

Details

The XYZ color **12.9890, 15.1235, 25.1562** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **14.9564, 13.2604, 7.7329**, and the grayscale version is **13.0012, 13.6782, 14.8956**.

A 20% lighter version of the original color is **30.8817, 35.1142, 52.7270**, and **3.8016, 4.6625, 9.2939** is the 20% darker color. If you saturate the color by 10%, you get **11.6193, 13.6938, 24.9527**, and if you desaturate by 10%, it is **14.6039, 16.7161, 25.3788**.

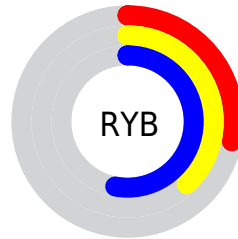
Distribution



Red (28%)

Green (45%)

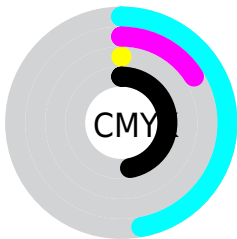
Blue (53%)



Red (28%)

Yellow (38%)

Blue (53%)

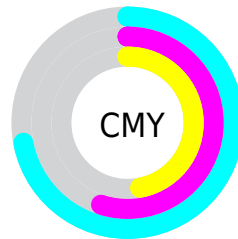


Cyan (47%)

Magenta (16%)

Yellow (0%)

Black (47%)



Cyan (72%)

Magenta (55%)

Yellow (47%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9890, 15.1235, 25.1562 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 12.9890, 15.1235, 25.1562 by changing the saturation by 10% instead.

■ 12.9890, 15.1235,
25.1562

■ 12.9890, 15.1235,
25.1562

204.4862,
224.1125, 292.0875

■ 7.4979, 8.9061,
15.9734

■ 30.8855, 35.0697,
52.8778

■ 3.8245, 4.6800,
9.3512

■ 44.0216, 49.5673,
72.2536

■ 1.6033, 2.0608,
4.8710

■ 60.4368, 67.5937,
95.8642

■ 0.3946, 0.6424,
2.1144

■ 80.4964, 89.5334,
124.1281

■ 0.0000, 0.0000,
0.6243

■ 104.5658,
115.7707, 157.4638

■ 0.0000, 0.0000,
0.0000

133.0103,

146.6901, 196.2900

166.1953,
182.6759, 241.0250

■ 12.9890, 15.1235,
25.1562

■ 12.9890, 15.1235,
25.1562

■ 11.6193, 13.6938,
24.9527

■ 14.6039, 16.7161,
25.3788

■ 10.4782, 12.4171,
24.7664

■ 16.4763, 18.4776,
25.6201

■ 9.5493, 11.2847,
24.5968

■ 18.6192, 20.4154,
25.8812

■ 8.8133, 10.2861,
24.4429

■ 21.0444, 22.5362,
26.1627

■ 8.2316, 9.4010,
24.3027

■ 23.7631, 24.8461,
26.4653

■ 8.0892, 9.1812,
24.2677

■ 26.7856, 27.3509,
26.7894

■ 30.1218, 30.0562,
27.1358

■ 33.7813, 32.9672,
27.5048

■ 37.7729, 36.0892,
27.8970

Harmonies

Analogous

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



11.9731, 15.1235, 21.3172



12.9890, 15.1235, 25.1562



14.4424, 15.1235, 26.5709

Triad

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



12.9890, 15.1235, 25.1562



17.5681, 15.1235, 16.2732



12.8794, 15.1235, 10.1923

Complementary

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



12.9890, 15.1235, 25.1562



14.9564, 13.2604, 7.7329

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.



14.3066, 15.1235, 9.3169



12.9890, 15.1235, 25.1562



17.0771, 15.1235, 12.4146

Square

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



12.9890, 15.1235, 25.1562



17.1534, 15.1235, 20.9196



15.8550, 15.1235, 10.0517



11.9131, 15.1235, 12.6956

Rectangle

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



12.9890, 15.1235, 25.1562



15.4858, 15.1235, 25.7788



15.8550, 15.1235, 10.0517



13.3175, 15.1235, 9.7205

Sweetspot

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



12.9895, 15.1241, 25.1566



34.6311, 37.6987, 46.4997



13.1627, 19.4278, 13.0146



7.8352, 8.5673, 10.7470



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



12.9895, 15.1241, 25.1566



20.6139, 24.3130, 44.6548



10.0450, 9.2351, 24.1751



4.6763, 5.0282, 5.9248



7.4716, 8.4910, 22.3818



0.0326, 0.0428, 0.0798

Inverse Universe

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



15.2826, 10.8727, 17.2134



25.4154, 16.3307, 27.8163



18.2454, 19.8384, 8.8292



4.7946, 4.7375, 5.5308



10.9494, 5.4441, 9.5719



0.0413, 0.0202, 0.0509

Previews

White Background



This preview shows how the XYZ color 12.9890, 15.1235, 25.1562 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 12.9890, 15.1235, 25.1562 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 12.9890, 15.1235, 25.1562

Background



This preview shows how black text looks on a background with the XYZ color 12.9890, 15.1235, 25.1562.



This preview shows how white text looks on a background with the XYZ color 12.9890, 15.1235,

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

12.9890, 15.1235, 25.1562

Protanopia

14.8805, 15.0107, 23.2322

Deuteranopia

15.3783, 15.0573, 25.7627



Tritanopia

12.3310, 15.2004, 21.6861

Trichromacy



Original Color

12.9890, 15.1235, 25.1562

Protanomaly

14.0552, 15.0420, 23.9924

Deuteranomaly

14.3262, 14.9902, 25.4309

Tritanomaly

12.5474, 15.1117, 23.0244

Monochromacy



Original Color

12.9890, 15.1235, 25.1562

Achromatopsia

13.1579, 13.8432, 15.0752

Achromatomaly

12.8707, 14.2382, 18.2896

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9890, 15.1235, 25.1562 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(71, 114, 135)` looks like.

```
.text, #text, p{  
    color:rgb(71, 114, 135)  
}
```

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(71, 114, 135) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 114, 135) }
```

Border

The CSS property to change the border of an element to XYZ 12.9890, 15.1235, 25.1562 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(71, 114, 135) }
```


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

```
.border{ border-color:rgb(71, 114, 135) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 114, 135)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 114, 135); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 114, 135);  
box-shadow:4px 4px 4px 4px rgb(71, 114,  
135) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9890, 15.1235, 25.1562 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 114, 135) }
```

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

```
.background{ background-color: rgb(71, 114,  
135) }
```

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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