

Converting Colors

XYZ(12.6752, 13.1578, 15.1767)

Have a look what the booklet for
XYZ(12.6752, 13.1578, 15.1767)
contains.

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Color

**XYZ(12.6830, 13.1521,
15.2347)**

Conversions

Conversions Part 1

Format	Color
Hex	666569
RGB	102, 101, 105
RGB Percent	40%, 40%, 41%
CMY	0.6000, 0.6039, 0.5882
CMYK	0.03, 0.04, 0.00, 0.59
HSL	255°, 2%, 40%
HSV	255°, 4%, 41%
XYZ	12.6830, 13.1521, 15.2347
YIQ	101.7550, -0.6880, 1.4560

Conversions

Conversions Part 2

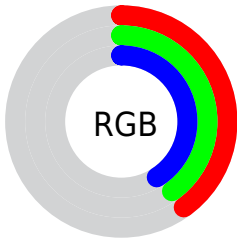
Format	Color
RYB	102, 101, 105
Decimal	6710633
CIELab	42.99, 1.23, -2.12
CIELCh	43, 2.451, 300.126
Yxy	13.1521, 0.3088, 0.3202
Android (android.graphics.Color)	4284900713 (0xFF666569)
YUV	101.7550, 1.5998, 0.2149
Hunter-Lab	36.2658, -1.0396, 0.4793

Details

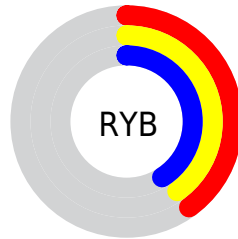
The XYZ color **12.6830, 13.1521, 15.2347** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **13.1099, 13.9861, 14.3212**, and the grayscale version is **12.5618, 13.2160, 14.3923**.

A 20% lighter version of the original color is **30.3659, 31.6291, 35.9571**, and **3.6584, 3.7560, 4.5352** is the 20% darker color. If you saturate the color by 10%, you get **10.8772, 10.8035, 14.8768**, and if you desaturate by 10%, it is **14.7047, 15.8061, 15.6406**.

Distribution



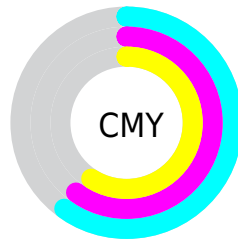
- Red (40%)
- Green (40%)
- Blue (41%)



- Red (40%)
- Yellow (40%)
- Blue (41%)



- Cyan (3%)
- Magenta (4%)
- Yellow (0%)
- Black (59%)



- Cyan (60%)
- Magenta (60%)
- Yellow (59%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.6830, 13.1521, 15.2347 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 12.6830, 13.1521, 15.2347 by changing the saturation by 10% instead.

■ 12.6830, 13.1521,
15.2347

■ 12.6830, 13.1521,
15.2347

202.5549,
211.8902, 236.4719

■ 7.2861, 7.5334,
8.8358

■ 30.3393, 31.5768,
36.0125

■ 3.6896, 3.7978,
4.5389

■ 43.3294, 45.1515,
51.2285

■ 1.5281, 1.5611,
1.9254

■ 59.5813, 62.1470,
70.2206

■ 0.3448, 0.3312,
0.5088

■ 79.4603, 82.9477,
93.4074

■ 0.0000, 0.0000,
0.0000

103.3318,
107.9380, 121.2074

131.5612,

137.5022, 154.0391

164.5137,
172.0248, 192.3211

■ 12.6830, 13.1521,
15.2347

■ 12.6830, 13.1521,
15.2347

■ 10.8772, 10.8035,
14.8768

■ 14.7047, 15.8061,
15.6406

■ 9.2790, 8.7477,
14.5642

■ 16.9480, 18.7743,
16.0953

■ 7.8810, 6.9735,
14.2954

■ 19.4200, 22.0672,
16.6006

■ 6.6751, 5.4684,
14.0685

■ 22.1270, 25.6942,
17.1580

■ 5.6525, 4.2191,
13.8812

■ 25.0749, 29.6646,
17.7690

■ 4.8039, 3.2110,
13.7313

■ 28.2697, 33.9870,
18.4349

■ 4.1189, 2.4279,
13.6163

■ 31.7169, 38.6699,
19.1571

■ 3.5861, 1.8517,
13.5332

■ 35.4221, 43.7214,
19.9369

■ 3.1884, 1.4539,
13.4773

■ 39.3905, 49.1495,
20.7755

Harmonies

Analogous

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



12.5015, 13.1521, 15.3809



12.6830, 13.1521, 15.2347



12.8168, 13.1521, 14.8423

Triad

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



12.6830, 13.1521, 15.2347



12.6816, 13.1521, 13.4413



12.1426, 13.1521, 14.3227

Complementary

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



12.6830, 13.1521, 15.2347



13.1099, 13.9861, 14.3212

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.



12.1898, 13.1521, 13.8109



12.6830, 13.1521, 15.2347



12.4999, 13.1521, 13.3098

Square

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



12.6830, 13.1521, 15.2347



12.8160, 13.1521, 13.8070



12.3201, 13.1521, 13.4434



12.1906, 13.1521, 14.8464

Rectangle

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



12.6830, 13.1521, 15.2347



12.8602, 13.1521, 14.4987



12.3201, 13.1521, 13.4434



12.1479, 13.1521, 14.1436

Sweetspot

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



12.6834, 13.1527, 15.2350



23.6775, 24.8160, 27.4731



12.8741, 13.7011, 15.3308



5.5536, 5.8226, 6.4370



52.6788, 55.4222, 60.3547



5.6320, 5.9254, 6.4527

Same Dimension

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



12.6834, 13.1527, 15.2350



22.2567, 22.9580, 27.1893



12.9051, 13.2670, 15.2454



3.1827, 3.2797, 3.9002



3.7435, 1.5569, 17.0255



18.3831, 7.5764, 86.7197

Inverse Universe

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



12.9785, 13.3107, 14.9825



22.9657, 23.3377, 26.5796



12.8880, 13.8717, 14.3109



3.2892, 3.3367, 3.8085



9.1384, 4.5075, 9.6232



46.2041, 22.8236, 47.1390

Previews

White Background



This preview shows how the XYZ color 12.6830, 13.1521, 15.2347 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 12.6830, 13.1521, 15.2347 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

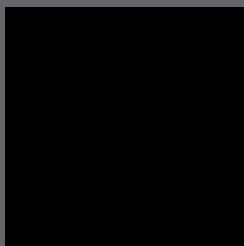
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

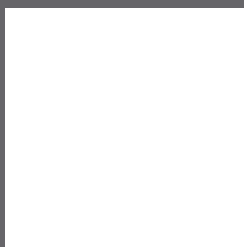
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.6830, 13.1521, 15.2347

Background



This preview shows how black text looks on a background with the XYZ color 12.6830, 13.1521, 15.2347.



This preview shows how white text looks on a background with the XYZ color 12.6830, 13.1521,

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

12.6830, 13.1521, 15.2347

Protanopia

12.6830, 13.1521, 15.2347

Deuteranopia

13.2759, 13.0272, 15.4505



Tritanopia

12.8575, 13.0806, 16.0345

Trichromacy



Original Color

12.6830, 13.1521, 15.2347

Protanomaly

12.6830, 13.1521, 15.2347

Deuteranomaly

13.0072, 13.0285, 15.4649

Tritanomaly

12.8045, 13.0594, 15.7558

Monochromacy



Original Color

12.6830, 13.1521, 15.2347

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

12.6790, 13.3068, 14.7322

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.6830, 13.1521, 15.2347 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(102, 101, 105)` looks like.

```
.text, #text, p{  
    color:rgb(102, 101, 105)  
}
```

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(102, 101, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 101, 105) }
```

Border

The CSS property to change the border of an element to XYZ 12.6830, 13.1521, 15.2347 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(102, 101, 105) }
```


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

```
.border{ border-color:rgb(102, 101, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 101, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 101, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 101, 105);  
box-shadow:4px 4px 4px 4px rgb(102, 101,  
105) }
```

Background

The CSS property to change the background color of an element to XYZ 12.6830, 13.1521, 15.2347 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 101, 105) }
```

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

```
.background{ background-color: rgb(102,  
101, 105) }
```

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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