

Converting Colors

XYZ(12.6968, 12.7741, 15.3469)

Have a look what the booklet for
XYZ(12.6968, 12.7741, 15.3469)
contains.

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Color

**XYZ(12.6781, 12.7190,
15.4225)**

Conversions

Conversions Part 1

Format	Color
Hex	68626A
RGB	104, 98, 106
RGB Percent	41%, 38%, 42%
CMY	0.5922, 0.6157, 0.5843
CMYK	0.02, 0.08, 0.00, 0.58
HSL	285°, 4%, 40%
HSV	285°, 8%, 42%
XYZ	12.6781, 12.7190, 15.4225
YIQ	100.7060, 1.0080, 3.7600

Conversions

Conversions Part 2

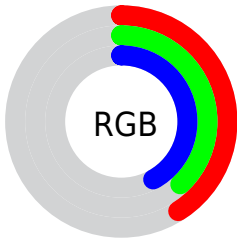
Format	Color
R_{YB}	104, 98, 106
Decimal	6840938
CIE _{Lab}	42.34, 4.02, -3.67
CIE _{LCh}	42, 5.446, 317.573
Yxy	12.7190, 0.3106, 0.3116
Android (android.graphics.Color)	4285031018 (0xFF68626A)
YUV	100.7060, 2.6099, 2.8888
Hunter-Lab	35.6637, 1.0435, -0.6749

Details

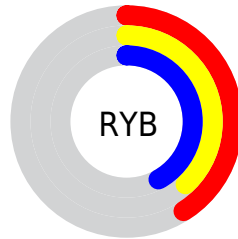
The XYZ color **12.6781, 12.7190, 15.4225** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **12.6147, 13.8996, 13.5739**, and the grayscale version is **12.2875, 12.9274, 14.0779**.

A 20% lighter version of the original color is **30.3508, 30.8978, 36.2625**, and **3.7048, 3.6416, 4.6453** is the 20% darker color. If you saturate the color by 10%, you get **11.4485, 10.7093, 15.0996**, and if you desaturate by 10%, it is **14.0495, 14.9975, 15.7902**.

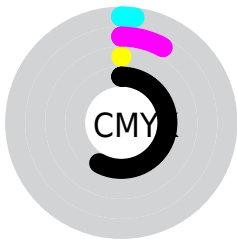
Distribution



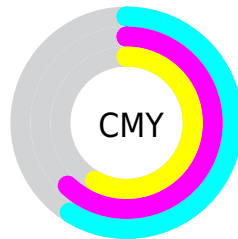
- Red (41%)
- Green (38%)
- Blue (42%)



- Red (41%)
- Yellow (38%)
- Blue (42%)



- Cyan (2%)
- Magenta (8%)
- Yellow (0%)
- Black (58%)



- Cyan (59%)
- Magenta (62%)
- Yellow (58%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.6781, 12.7190, 15.4225 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 12.6781, 12.7190, 15.4225 by changing the saturation by 10% instead.

■ 12.6781, 12.7190,
15.4225

■ 12.6781, 12.7190,
15.4225

202.5238,
209.1088, 237.6377

■ 7.2827, 7.2353,
8.9665

■ 30.3305, 30.7980,
36.3454

■ 3.6874, 3.6097,
4.6228

■ 43.3183, 44.1622,
51.6494

■ 1.5269, 1.4577,
1.9729

■ 59.5675, 60.9219,
70.7399

■ 0.3440, 0.2587,
0.5385

■ 79.4436, 81.4617,
94.0353

■ 0.0000, 0.0000,
0.0000

103.3120,
106.1659, 121.9543

131.5379,

135.4189, 154.9153

164.4867,
169.6051, 193.3369

■ 12.6781, 12.7190,
15.4225

■ 12.6781, 12.7190,
15.4225

■ 11.4485, 10.7093,
15.0996

■ 14.0495, 14.9975,
15.7902

■ 10.3544, 8.9565,
14.8189

■ 15.5664, 17.5530,
16.2035

■ 9.3906, 7.4501,
14.5790

■ 17.2341, 20.3951,
16.6642

■ 8.5511, 6.1785,
14.3778

■ 19.0568, 23.5328,
17.1738

■ 7.8295, 5.1289,
14.2132

■ 21.0390, 26.9743,
17.7336

7.2188, 4.2872,
14.0829

23.1846, 30.7279,
18.3450

6.7110, 3.6380,
13.9844

25.4978, 34.8013,
19.0093

6.2973, 3.1633,
13.9146

27.9821, 39.2020,
19.7278

5.9502, 2.8088,
13.8644

30.6414, 43.9372,
20.5016

Harmonies

Analogous

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



12.3277, 12.7190, 16.1059



12.6781, 12.7190, 15.4225



12.8724, 12.7190, 14.3386

Triad

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



12.6781, 12.7190, 15.4225



12.2588, 12.7190, 11.7662



11.3556, 12.7190, 14.5391

Complementary

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



12.6781, 12.7190, 15.4225



12.6147, 13.8996, 13.5739

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.



11.3381, 12.7190, 13.3704



12.6781, 12.7190, 15.4225



11.8534, 12.7190, 11.8132

Square

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



12.6781, 12.7190, 15.4225



12.6267, 12.7190, 12.2539



11.5185, 12.7190, 12.3860



11.5668, 12.7190, 15.5764

Rectangle

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



12.6781, 12.7190, 15.4225



12.8844, 12.7190, 13.5545



11.5185, 12.7190, 12.3860



11.3270, 12.7190, 14.1474

Sweetspot

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



12.6785, 12.7195, 15.4228



23.5406, 24.4585, 27.4113



12.2090, 12.7778, 15.4588



5.5242, 5.7458, 6.4237



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.



12.6785, 12.7195, 15.4228



21.8659, 21.6892, 26.9650



12.8174, 12.8023, 14.9281



3.1473, 3.1277, 3.8727



7.2499, 3.3645, 17.1896



36.1183, 16.7193, 87.5497

Inverse Universe

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



12.6122, 12.7202, 13.8478



21.7273, 21.6920, 23.6043



12.4853, 13.8226, 14.0333



3.1279, 3.1281, 3.4041



7.6024, 3.8931, 1.5349



38.4346, 19.7158, 6.2254

Previews

White Background



This preview shows how the XYZ color 12.6781, 12.7190, 15.4225 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 12.6781, 12.7190, 15.4225 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 12.6781, 12.7190, 15.4225

Background



This preview shows how black text looks on a background with the XYZ color 12.6781, 12.7190, 15.4225.



This preview shows how white text looks on a background with the XYZ color 12.6781, 12.7190,

15.4225.

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

12.6781, 12.7190, 15.4225

Protanopia

12.3712, 12.6945, 15.7082

Deuteranopia

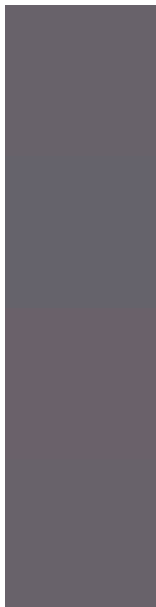
12.9396, 12.7158, 15.4081



Tritanopia

12.6781, 12.7190, 15.4225

Trichromacy



Original Color

12.6781, 12.7190, 15.4225

Protanomaly

12.4825, 12.7519, 15.7134

Deuteranomaly

12.8201, 12.6542, 15.4025

Tritanomaly

12.6781, 12.7190, 15.4225

Monochromacy



Original Color

12.6781, 12.7190, 15.4225

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.4848, 12.9184, 14.6674

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.6781, 12.7190, 15.4225 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(104, 98, 106)` looks like.

```
.text, #text, p{  
    color:rgb(104, 98, 106)  
}
```

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(104, 98, 106) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 98, 106) }
```

Border

The CSS property to change the border of an element to XYZ 12.6781, 12.7190, 15.4225 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(104, 98, 106) }
```


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

```
.border{ border-color:rgb(104, 98, 106) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 98, 106)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 98, 106); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 98, 106);  
box-shadow:4px 4px 4px 4px rgb(104, 98,  
106) }
```

Background

The CSS property to change the background color of an element to XYZ 12.6781, 12.7190, 15.4225 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 98, 106) }
```

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

```
.background{ background-color: rgb(104, 98,  
106) }
```

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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