

Converting Colors

XYZ(12.7708, 13.1092, 15.1009)

Have a look what the booklet for
XYZ(12.7708, 13.1092, 15.1009)
contains.

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Color

**XYZ(12.8159, 13.0773,
15.2133)**

Conversions

Conversions Part 1

Format	Color
Hex	686469
RGB	104, 100, 105
RGB Percent	41%, 39%, 41%
CMY	0.5922, 0.6078, 0.5882
CMYK	0.01, 0.05, 0.00, 0.59
HSL	288°, 2%, 40%
HSV	288°, 5%, 41%
XYZ	12.8159, 13.0773, 15.2133
YIQ	101.7660, 0.7790, 2.4030

Conversions

Conversions Part 2

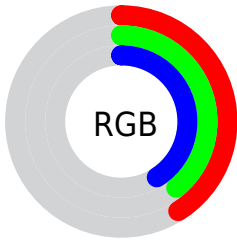
Format	Color
R_{YB}	104, 100, 105
Decimal	6841449
CIE Lab	42.88, 2.60, -2.26
CIE LCh	43, 3.450, 318.972
Yxy	13.0773, 0.3118, 0.3181
Android (android.graphics.Color)	4285031529 (0xFF686469)
YUV	101.7660, 1.5944, 1.9592
Hunter-Lab	36.1625, -0.0246, 0.3709

Details

The XYZ color **12.8159, 13.0773, 15.2133** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **12.7191, 13.7903, 14.0486**, and the grayscale version is **12.5644, 13.2187, 14.3952**.

A 20% lighter version of the original color is **30.5849, 31.5021, 35.9210**, and **3.7242, 3.7216, 4.5250** is the 20% darker color. If you saturate the color by 10%, you get **11.6324, 11.0676, 14.8880**, and if you desaturate by 10%, it is **14.1360, 15.3509, 15.5828**.

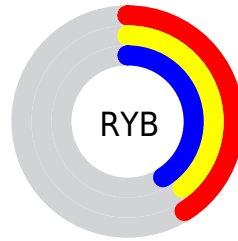
Distribution



Red (41%)

Green (39%)

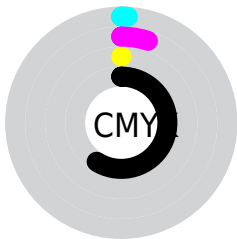
Blue (41%)



Red (41%)

Yellow (39%)

Blue (41%)

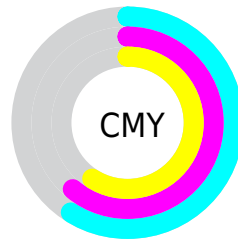


Cyan (1%)

Magenta (5%)

Yellow (0%)

Black (59%)



Cyan (59%)

Magenta (61%)

Yellow (59%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8159, 13.0773, 15.2133 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 12.8159, 13.0773, 15.2133 by changing the saturation by 10% instead.

■ 12.8159, 13.0773,
15.2133

■ 12.8159, 13.0773,
15.2133

203.3959,
211.4125, 236.3387

■ 7.3780, 7.4818,
8.8209

■ 30.5768, 31.4426,
35.9745

■ 3.7480, 3.7652,
4.5294

■ 43.6305, 44.9812,
51.1805

■ 1.5606, 1.5431,
1.9200

■ 59.9535, 61.9362,
70.1613

■ 0.3665, 0.3188,
0.5054

■ 79.9112, 82.6921,
93.3357

■ 0.0000, 0.0000,
0.0000

103.8690,
107.6333, 121.1221

132.1921,

137.1442, 153.9390

165.2460,
171.6091, 192.2051

■ 12.8159, 13.0773,
15.2133

■ 12.8159, 13.0773,
15.2133

■ 11.6324, 11.0676,
14.8880

■ 14.1360, 15.3509,
15.5828

■ 10.5795, 9.3102,
14.6042

■ 15.5964, 17.8961,
15.9971

■ 9.6522, 7.7952,
14.3607

■ 17.2018, 20.7223,
16.4580

■ 8.8449, 6.5114,
14.1554

■ 18.9566, 23.8379,
16.9669

■ 8.1515, 5.4467,
13.9865

■ 20.8648, 27.2512,
17.5251

7.5653, 4.5877,
13.8516

22.9304, 30.9698,
18.1340

7.0790, 3.9198,
13.7483

25.1571, 35.0013,
18.7948

6.6842, 3.4264,
13.6739

27.5485, 39.3529,
19.5087

6.3648, 3.0753,
13.6229

30.1083, 44.0317,
20.2769

Harmonies

Analogous

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



12.5951, 13.0773, 15.6564



12.8159, 13.0773, 15.2133



12.9338, 13.0773, 14.5185

Triad

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



12.8159, 13.0773, 15.2133



12.5268, 13.0773, 12.8611



11.9564, 13.0773, 14.7161

Complementary

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



12.8159, 13.0773, 15.2133



12.7191, 13.7903, 14.0486

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.



11.9387, 13.0773, 13.9631



12.8159, 13.0773, 15.2133



12.2655, 13.0773, 12.9098

Square

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



12.8159, 13.0773, 15.2133



12.7653, 13.0773, 13.1717



12.0511, 13.0773, 13.3071



12.0998, 13.0773, 15.3624

Rectangle

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



12.8159, 13.0773, 15.2133



12.9370, 13.0773, 14.0138



12.0511, 13.0773, 13.3071



11.9356, 13.0773, 14.4665

Sweetspot

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



12.8163, 13.0779, 15.2136



23.8017, 24.8801, 27.4789



12.4676, 13.0534, 15.2272



5.5803, 5.8363, 6.4383



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.



12.8163, 13.0779, 15.2136



22.6349, 22.8807, 27.1545



12.8608, 13.1092, 14.8388



3.2452, 3.2779, 3.8965



7.8280, 3.6625, 17.2166



39.1727, 18.2939, 87.6926

Inverse Universe

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



12.7323, 13.0577, 14.1618



22.4426, 22.8350, 24.7297



12.6770, 13.7606, 14.4076



3.2171, 3.2712, 3.5422



7.5358, 3.8665, 1.1843



38.1401, 19.5980, 4.6745

Previews

White Background



This preview shows how the XYZ color 12.8159, 13.0773, 15.2133 looks on a white background.

Color Contrast Check

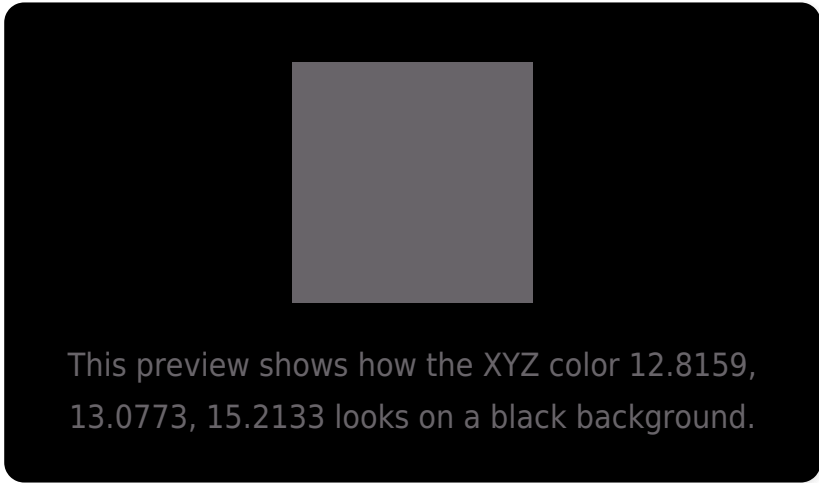
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

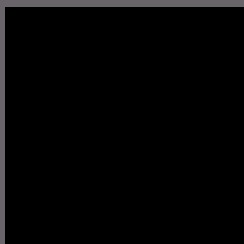
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

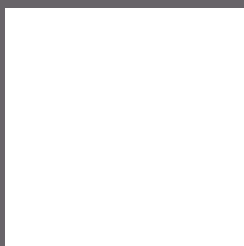
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.8159, 13.0773, 15.2133

Background



This preview shows how black text looks on a background with the XYZ color 12.8159, 13.0773, 15.2133.



This preview shows how white text looks on a background with the XYZ color 12.8159, 13.0773,

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

12.8159, 13.0773, 15.2133

Protanopia

12.6830, 13.1521, 15.2347

Deuteranopia

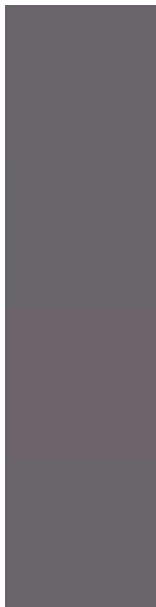
13.2242, 13.0065, 15.1781



Tritanopia

12.9199, 13.1189, 15.7612

Trichromacy



Original Color

12.8159, 13.0773, 15.2133

Protanomaly

12.7970, 13.2108, 15.2401

Deuteranomaly

13.0750, 13.0694, 15.1981

Tritanomaly

12.8676, 13.0980, 15.4856

Monochromacy



Original Color

12.8159, 13.0773, 15.2133

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

12.6954, 13.1702, 14.7049

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8159, 13.0773, 15.2133 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, 100, 105)` looks like.

```
.text, #text, p{  
    color:rgb(104, 100, 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(104, 100, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 100, 105) }
```

Border

The CSS property to change the border of an element to XYZ 12.8159, 13.0773, 15.2133 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, 100, 105) }
```


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

```
.border{ border-color:rgb(104, 100, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 100, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 100, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 100, 105);  
box-shadow:4px 4px 4px 4px rgb(104, 100,  
105) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8159, 13.0773, 15.2133 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 100, 105) }
```

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

```
.background{ background-color: rgb(104,  
100, 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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