

Converting Colors

XYZ(12.4176, 12.6972, 16.9728)

Have a look what the booklet for
XYZ(12.4176, 12.6972, 16.9728)
contains.

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Color

**XYZ(12.3681, 12.6680,
16.8322)**

Conversions

Conversions Part 1

Format	Color
Hex	62636F
RGB	98, 99, 111
RGB Percent	38%, 39%, 44%
CMY	0.6157, 0.6118, 0.5647
CMYK	0.12, 0.11, 0.00, 0.56
HSL	235°, 6%, 41%
HSV	235°, 12%, 44%
XYZ	12.3681, 12.6680, 16.8322
YIQ	100.0690, -4.4480, 3.5200

Conversions

Conversions Part 2

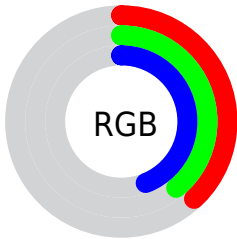
Format	Color
R_{YB}	98, 99, 111
Decimal	6447983
CIE _{Lab}	42.26, 2.26, -6.89
CIE _{LCh}	42, 7.253, 288.129
Yxy	12.6680, 0.2954, 0.3026
Android (android.graphics.Color)	4284638063 (0xFF62636F)
YUV	100.0690, 5.3890, -1.8145
Hunter-Lab	35.5921, -0.2583, -3.1249

Details

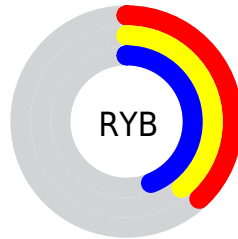
The XYZ color **12.3681, 12.6680, 16.8322** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **14.3362, 15.4133, 13.7751**, and the grayscale version is **12.1185, 12.7496, 13.8843**.

A 20% lighter version of the original color is **29.9116, 30.8466, 39.0278**, and **3.5355, 3.6089, 5.2129** is the 20% darker color. If you saturate the color by 10%, you get **10.3427, 10.2735, 16.4770**, and if you desaturate by 10%, it is **14.6836, 15.3956, 17.2368**.

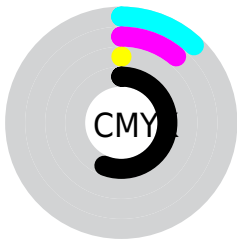
Distribution



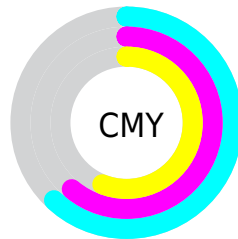
- Red (38%)
- Green (39%)
- Blue (44%)



- Red (38%)
- Yellow (39%)
- Blue (44%)



- Cyan (12%)
- Magenta (11%)
- Yellow (0%)
- Black (56%)



- Cyan (62%)
- Magenta (61%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3681, 12.6680, 16.8322 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 12.3681, 12.6680, 16.8322 by changing the saturation by 10% instead.

■ 12.3681, 12.6680,
16.8322

■ 12.3681, 12.6680,
16.8322

200.5477,
208.7788, 246.2147

■ 7.0689, 7.2003,
9.9542

■ 29.7748, 30.7060,
38.8237

■ 3.5519, 3.5877,
5.2634

■ 42.6131, 44.0452,
54.7744

■ 1.4519, 1.4457,
2.3412

■ 58.6950, 60.7769,
74.5863

■ 0.2928, 0.2501,
0.7542

■ 78.3860, 81.2857,
98.6781

■ 0.0000, 0.0000,
0.0000

102.0514,
105.9559, 127.4683

130.0566,

135.1719, 161.3755

162.7669,
169.3181, 200.8181

■ 12.3681, 12.6680,
16.8322

■ 12.3681, 12.6680,
16.8322

■ 10.3427, 10.2735,
16.4770

■ 14.6836, 15.3956,
17.2368

■ 8.5948, 8.1977,
16.1684

■ 17.2987, 18.4666,
17.6918

■ 7.1127, 6.4277,
15.9049

■ 20.2241, 21.8931,
18.1990

■ 5.8833, 4.9490,
15.6843

■ 23.4696, 25.6859,
18.7600

■ 4.8925, 3.7460,
15.5043

■ 27.0443, 29.8553,
19.3764

■ 4.1246, 2.8015,
15.3625

■ 30.9572, 34.4115,
20.0496

■ 3.5624, 2.0965,
15.2560

■ 35.2169, 39.3641,
20.7810

■ 3.1855, 1.6091,
15.1818

■ 39.8317, 44.7222,
21.5720

■ 2.9620, 1.3332,
15.1403

■ 44.8096, 50.4950,
22.4239

Harmonies

Analogous

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



11.8272, 12.6680, 16.9288



12.3681, 12.6680, 16.8322



12.8343, 12.6680, 15.8853

Triad

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



12.3681, 12.6680, 16.8322



12.7504, 12.6680, 11.6859



11.0482, 12.6680, 13.1877

Complementary

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



12.3681, 12.6680, 16.8322



14.3362, 15.4133, 13.7751

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.



11.2803, 12.6680, 11.8936



12.3681, 12.6680, 16.8322



12.2565, 12.6680, 11.0711

Square

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



12.3681, 12.6680, 16.8322



13.0595, 12.6680, 12.8843



11.7188, 12.6680, 11.1441



11.0760, 12.6680, 14.7440

Rectangle

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



12.3681, 12.6680, 16.8322



13.0349, 12.6680, 14.9366



11.7188, 12.6680, 11.1441



11.0981, 12.6680, 12.7099

Sweetspot

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



12.3685, 12.6685, 16.8325



25.2507, 26.3417, 30.6834



13.5316, 15.0898, 16.9277



6.0023, 6.2531, 7.3603



55.7959, 58.7016, 63.9261



6.5000, 6.8385, 7.4471

Same Dimension

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



12.3685, 12.6685, 16.8325



21.1291, 21.4824, 29.9627



12.8787, 12.7917, 16.8294



3.2364, 3.3380, 4.2279



3.4812, 1.5527, 17.8378



17.0761, 7.2040, 88.7696

Inverse Universe

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



13.1757, 13.0161, 13.6228



22.8752, 22.2401, 23.0182



13.7838, 15.2896, 13.7804



3.3940, 3.4053, 3.6013



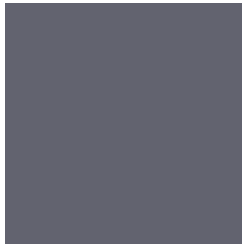
7.7755, 4.0026, 0.6276



38.5992, 19.8850, 2.4216

Previews

White Background



This preview shows how the XYZ color 12.3681, 12.6680, 16.8322 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 12.3681, 12.6680, 16.8322 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

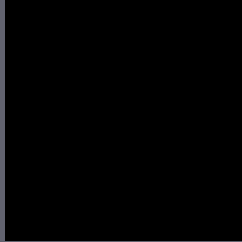
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

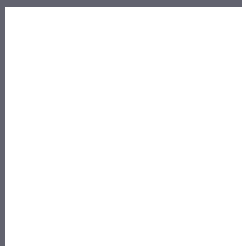
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.3681, 12.6680, 16.8322

Background



This preview shows how black text looks on a background with the XYZ color 12.3681, 12.6680, 16.8322.

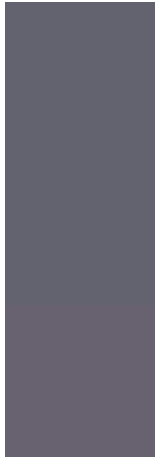


This preview shows how white text looks on a background with the XYZ color 12.3681, 12.6680,

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

12.3681, 12.6680, 16.8322

Protanopia

12.3681, 12.6680, 16.8322

Deuteranopia

12.8529, 12.6401, 16.8013



Tritanopia

12.1408, 12.7173, 15.7247

Trichromacy



Original Color

12.3681, 12.6680, 16.8322

Protanomaly

12.3681, 12.6680, 16.8322

Deuteranomaly

12.7164, 12.7078, 16.8216

Tritanomaly

12.1937, 12.7384, 16.0034

Monochromacy



Original Color

12.3681, 12.6680, 16.8322

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

12.2015, 12.7665, 14.9178

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3681, 12.6680, 16.8322 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(98, 99, 111) looks like.

```
.text, #text, p{  
    color:rgb(98, 99, 111)  
}
```

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(98, 99, 111) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(98, 99, 111) }
```

Border

The CSS property to change the border of an element to XYZ 12.3681, 12.6680, 16.8322 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(98, 99, 111) }
```


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

```
.border{ border-color:rgb(98, 99, 111) }
```

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

Here you see how a box with a 4 pixel `rgb(98, 99, 111)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(98, 99, 111); -webkit-box-  
shadow:4px 4px 4px 4px rgb(98, 99, 111);  
box-shadow:4px 4px 4px 4px rgb(98, 99,  
111) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3681, 12.6680, 16.8322 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(98, 99, 111) }
```

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

```
.background{ background-color: rgb(98, 99,  
111) }
```

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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