

Converting Colors

XYZ(12.7017, 12.7998, 18.1002)

Have a look what the booklet for
XYZ(12.7017, 12.7998, 18.1002)
contains.

XYZ(12.7019, 12.8141, 18.0236)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.7019, 12.8141,
18.0236)**

Conversions

Conversions Part 1

Format	Color
Hex	636373
RGB	99, 99, 115
RGB Percent	39%, 39%, 45%
CMY	0.6118, 0.6118, 0.5490
CMYK	0.14, 0.14, 0.00, 0.55
HSL	240°, 7%, 42%
HSV	240°, 14%, 45%
XYZ	12.7019, 12.8141, 18.0236
YIQ	100.8240, -5.1360, 4.9760

Conversions

Conversions Part 2

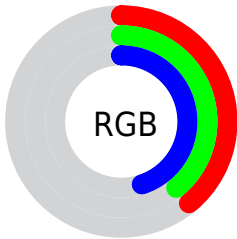
Format	Color
R_{YB}	99, 99, 115
Decimal	6513523
CIE Lab	42.48, 3.55, -8.98
CIE LCh	42, 9.661, 291.587
Yxy	12.8141, 0.2917, 0.2943
Android (android.graphics.Color)	4284703603 (0xFF636373)
YUV	100.8240, 6.9888, -1.5996
Hunter-Lab	35.7968, 0.6934, -4.7946

Details

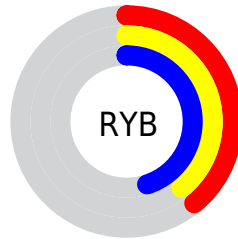
The XYZ color **12.7019, 12.8141, 18.0236** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **15.4531, 16.8070, 14.2342**, and the grayscale version is **12.3081, 12.9490, 14.1015**.

A 20% lighter version of the original color is **30.4591, 31.0867, 40.9542**, and **3.7024, 3.6815, 5.8257** is the 20% darker color. If you saturate the color by 10%, you get **10.5210, 10.1864, 17.6316**, and if you desaturate by 10%, it is **15.2176, 15.8454, 18.4763**.

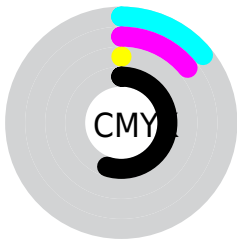
Distribution



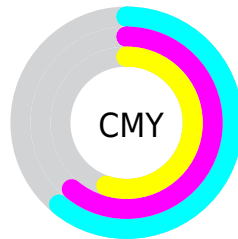
- Red (39%)
- Green (39%)
- Blue (45%)



- Red (39%)
- Yellow (39%)
- Blue (45%)



- Cyan (14%)
- Magenta (14%)
- Yellow (0%)
- Black (55%)



- Cyan (61%)
- Magenta (61%)
- Yellow (55%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7019, 12.8141, 18.0236 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 12.7019, 12.8141, 18.0236 by changing the saturation by 10% instead.

■ 12.7019, 12.8141,
18.0236

■ 12.7019, 12.8141,
18.0236

202.6747,
209.7228, 253.2446

■ 7.2992, 7.3007,
10.7973

■ 30.3731, 30.9694,
40.8920

■ 3.6979, 3.6508,
5.8183

■ 43.3722, 44.3801,
57.3712

■ 1.5327, 1.4802,
2.6679

■ 59.6343, 61.1919,
77.7718

■ 0.3479, 0.2747,
0.9272

■ 79.5245, 81.7893,
102.5124

■ 0.0000, 0.0000,
0.0000

103.4083,
106.5567, 132.0114

131.6510,

135.8785, 166.6874

164.6181,
170.1391, 206.9590

■ 12.7019, 12.8141,
18.0236

■ 12.7019, 12.8141,
18.0236

■ 10.5210, 10.1864,
17.6316

■ 15.2176, 15.8454,
18.4763

■ 8.6598, 7.9438,
17.2968

■ 18.0803, 19.2946,
18.9912

■ 7.1036, 6.0687,
17.0169

■ 21.3027, 23.1773,
19.5708

■ 5.8362, 4.5415,
16.7889

■ 24.8969, 27.5079,
20.2172

■ 4.8397, 3.3408,
16.6097

■ 28.8741, 32.2999,
20.9326

■ 4.0945, 2.4428,
16.4756

■ 33.2451, 37.5666,
21.7188

■ 3.5781, 1.8206,
16.3827

■ 38.0205, 43.3203,
22.5777

■ 3.2583, 1.4352,
16.3252

■ 43.2102, 49.5733,
23.5111

■ 3.0947, 1.2381,
16.2958

■ 48.8239, 56.3371,
24.5208

Harmonies

Analogous

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



11.9757, 12.8141, 18.3075



12.7019, 12.8141, 18.0236



13.3099, 12.8141, 16.5954

Triad

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



12.7019, 12.8141, 18.0236



13.0704, 12.8141, 11.0400



10.8460, 12.8141, 13.3738

Complementary

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



12.7019, 12.8141, 18.0236



15.4531, 16.8070, 14.2342

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.



11.1148, 12.8141, 11.6060



12.7019, 12.8141, 18.0236



12.3855, 12.8141, 10.3493

Square

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



12.7019, 12.8141, 18.0236



13.5285, 12.8141, 12.5283



11.6715, 12.8141, 10.5456



10.9232, 12.8141, 15.4804

Rectangle

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



12.7019, 12.8141, 18.0236



13.5569, 12.8141, 15.2579



11.6715, 12.8141, 10.5456



10.8985, 12.8141, 12.7236

Sweetspot

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



12.7023, 12.8146, 18.0239



27.1575, 28.2626, 33.0684



14.3557, 16.1460, 18.4994



6.4063, 6.6551, 7.8759



57.3938, 60.3827, 65.7568



6.9614, 7.3239, 7.9757

Same Dimension

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



12.7023, 12.8146, 18.0239



21.2983, 21.2029, 32.0145



13.5879, 13.2710, 18.0653



3.5006, 3.5899, 4.5987



3.5378, 1.4153, 18.6293



17.2399, 6.8964, 90.7828

Inverse Universe

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



13.7845, 13.4696, 13.6783



23.6720, 22.6395, 22.4828



14.4786, 16.3049, 14.1886



3.6840, 3.7009, 3.8625



8.0829, 4.1669, 0.3786



39.3886, 20.3056, 1.8441

Previews

White Background



This preview shows how the XYZ color 12.7019, 12.8141, 18.0236 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 12.7019, 12.8141, 18.0236 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

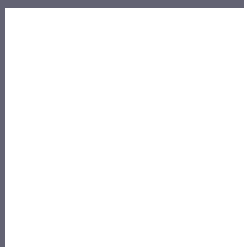
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.7019, 12.8141, 18.0236

Background



This preview shows how black text looks on a background with the XYZ color 12.7019, 12.8141, 18.0236.



This preview shows how white text looks on a background with the XYZ color 12.7019, 12.8141,

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

12.7019, 12.8141, 18.0236

Protanopia

12.4861, 12.7029, 18.0135

Deuteranopia

13.0557, 12.8567, 18.0131



Tritanopia

12.3009, 12.7937, 16.0085

Trichromacy



Original Color

12.7019, 12.8141, 18.0236

Protanomaly

12.5934, 12.7582, 18.0185

Deuteranomaly

12.9417, 12.7980, 18.0078

Tritanomaly

12.4634, 12.8587, 16.8640

Monochromacy



Original Color

12.7019, 12.8141, 18.0236

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.4142, 12.8643, 15.4644

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7019, 12.8141, 18.0236 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(99, 99, 115) looks like.

```
.text, #text, p{  
    color:rgb(99, 99, 115)  
}
```

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(99, 99, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 99, 115) }
```

Border

The CSS property to change the border of an element to XYZ 12.7019, 12.8141, 18.0236 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(99, 99, 115) }
```


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

```
.border{ border-color:rgb(99, 99, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 99, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 99, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 99, 115);  
box-shadow:4px 4px 4px 4px rgb(99, 99,  
115) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7019, 12.8141, 18.0236 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 99, 115) }
```

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

```
.background{ background-color: rgb(99, 99,  
115) }
```

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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