

Converting Colors

XYZ(12.7980, 15.3195, 20.5103)

Have a look what the booklet for
XYZ(12.7980, 15.3195, 20.5103)
contains.

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Color

**XYZ(12.7238, 15.2616,
20.3643)**

Conversions

Conversions Part 1

Format	Color
Hex	4E7379
RGB	78, 115, 121
RGB Percent	31%, 45%, 47%
CMY	0.6941, 0.5490, 0.5255
CMYK	0.36, 0.05, 0.00, 0.53
HSL	188°, 22%, 39%
HSV	188°, 36%, 47%
XYZ	12.7238, 15.2616, 20.3643
YIQ	104.6210, -23.9780, -5.9780

Conversions

Conversions Part 2

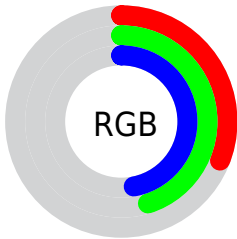
Format	Color
R_{YB}	78, 98, 121
Decimal	5141369
CIE Lab	45.99, -11.42, -7.50
CIE LCh	46, 13.662, 213.273
Yxy	15.2616, 0.2632, 0.3157
Android (android.graphics.Color)	4283331449 (0xFF4E7379)
YUV	104.6210, 8.0748, -23.3466
Hunter-Lab	39.0661, -10.2283, -3.5603

Details

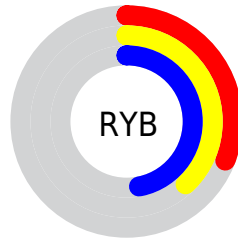
The XYZ color **12.7238, 15.2616, 20.3643** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **12.4309, 10.9559, 8.6677**, and the grayscale version is **13.3088, 14.0019, 15.2480**.

A 20% lighter version of the original color is **30.4148, 35.3217, 44.7499**, and **3.7164, 4.7566, 7.0256** is the 20% darker color. If you saturate the color by 10%, you get **11.6316, 14.4158, 20.2589**, and if you desaturate by 10%, it is **14.0029, 16.2098, 20.4802**.

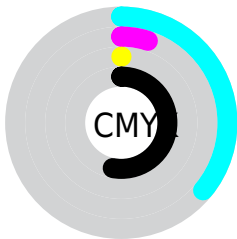
Distribution



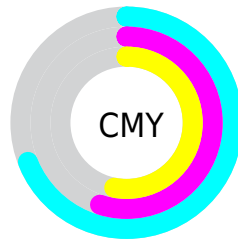
- Red (31%)
- Green (45%)
- Blue (47%)



- Red (31%)
- Yellow (38%)
- Blue (47%)



- Cyan (36%)
- Magenta (5%)
- Yellow (0%)
- Black (53%)



- Cyan (69%)
- Magenta (55%)
- Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7238, 15.2616, 20.3643 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 12.7238, 15.2616, 20.3643 by changing the saturation by 10% instead.

■ 12.7238, 15.2616,
20.3643

■ 12.7238, 15.2616,
20.3643

202.8135,
224.9442, 266.5497

■ 7.3143, 9.0032,
12.4734

■ 30.4122, 35.3115,
44.8941

■ 3.7075, 4.7433,
6.9405

■ 43.4219, 49.8717,
62.3701

■ 1.5380, 2.0974,
3.3471

■ 59.6957, 67.9680,
83.8782

■ 0.3515, 0.6632,
1.2745

■ 79.5989, 89.9847,
109.8370

■ 0.0000, 0.0000,
0.0407

■ 103.4969,
116.3063, 140.6650

■ 0.0000, 0.0000,
0.0000

131.7551,

147.3172, 176.7808

164.7388,
183.4017, 218.6028

■ 12.7238, 15.2616,
20.3643

■ 12.7238, 15.2616,
20.3643

■ 11.6316, 14.4158,
20.2589

■ 14.0029, 16.2098,
20.4802

■ 10.7149, 13.6652,
20.1623

■ 15.4767, 17.2632,
20.6058

■ 9.9631, 13.0049,
20.0745

■ 17.1545, 18.4271,
20.7420

■ 9.3640, 12.4284,
19.9948

■ 19.0443, 19.7056,
20.8892

■ 8.9036, 11.9285,
19.9226

■ 21.1538, 21.1027,
21.0477

■ 8.5575, 11.4927,
19.8567

■ 23.4903, 22.6221,
21.2178

■ 8.4136, 11.3053,
19.8281

■ 26.0606, 24.2676,
21.4000

■ 28.8716, 26.0425,
21.5944

■ 31.9296, 27.9502,
21.8014

Harmonies

Analogous

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



12.3957, 15.2616, 16.9838



12.7238, 15.2616, 20.3643



13.5278, 15.2616, 22.9834

Triad

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



12.7238, 15.2616, 20.3643



16.5852, 15.2616, 19.6511



14.3790, 15.2616, 11.0327

Complementary

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



12.7238, 15.2616, 20.3643



12.4309, 10.9559, 8.6677

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.



15.5296, 15.2616, 11.5508



12.7238, 15.2616, 20.3643



16.8424, 15.2616, 16.2561

Square

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



12.7238, 15.2616, 20.3643



15.7610, 15.2616, 22.5347



16.4466, 15.2616, 13.3606



13.3189, 15.2616, 11.8387

Rectangle

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



12.7238, 15.2616, 20.3643



14.2466, 15.2616, 23.7832



16.4466, 15.2616, 13.3606



14.7679, 15.2616, 11.0582

Sweetspot

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



12.7243, 15.2622, 20.3647



28.9490, 31.7769, 37.0007



11.5694, 15.9307, 10.7984



6.5485, 7.2166, 8.4545



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256

Same Dimension

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



12.7243, 15.2622, 20.3647



21.0947, 26.0251, 36.3044



10.5754, 10.9646, 19.6484



4.0617, 4.4217, 5.0826



9.0104, 12.1031, 21.2465



42.5144, 56.8015, 101.1928

Inverse Universe

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



13.7044, 10.7519, 17.5733



23.1804, 16.7690, 30.2881



14.3360, 14.7661, 9.3027



4.1316, 4.0684, 4.8906



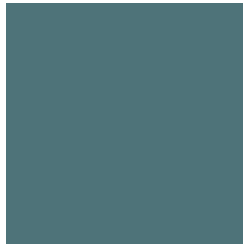
11.1313, 5.4287, 14.5144



52.8625, 25.8013, 67.9969

Previews

White Background



This preview shows how the XYZ color 12.7238, 15.2616, 20.3643 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 12.7238, 15.2616, 20.3643 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 12.7238, 15.2616, 20.3643

Background



This preview shows how black text looks on a background with the XYZ color 12.7238, 15.2616, 20.3643.



This preview shows how white text looks on a background with the XYZ color 12.7238, 15.2616,

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

12.7238, 15.2616, 20.3643

Protanopia

14.7578, 15.1976, 18.9852

Deuteranopia

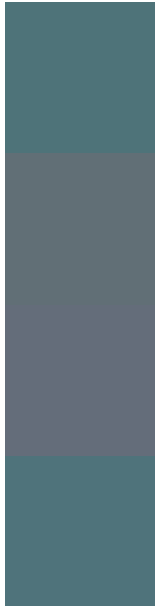
15.4113, 15.1829, 20.8572



Tritanopia

12.9933, 15.3790, 21.3524

Trichromacy



Original Color

12.7238, 15.2616, 20.3643

Protanomaly

13.8842, 15.2183, 19.3452

Deuteranomaly

14.2370, 15.0517, 20.5673

Tritanomaly

12.9303, 15.3538, 21.0210

Monochromacy



Original Color

12.7238, 15.2616, 20.3643

Achromatopsia

13.4271, 14.1263, 15.3836

Achromatomaly

13.0572, 14.5179, 17.1530

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7238, 15.2616, 20.3643 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(78, 115, 121)` looks like.

```
.text, #text, p{  
    color:rgb(78, 115, 121)  
}
```

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(78, 115, 121) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 115, 121) }
```

Border

The CSS property to change the border of an element to XYZ 12.7238, 15.2616, 20.3643 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(78, 115, 121) }
```


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

```
.border{ border-color:rgb(78, 115, 121) }
```

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

Here you see how a box with a 4 pixel `rgb(78, 115, 121)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 115, 121); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 115, 121);  
box-shadow:4px 4px 4px 4px rgb(78, 115,  
121) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7238, 15.2616, 20.3643 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 115, 121) }
```

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

```
.background{ background-color: rgb(78, 115,  
121) }
```

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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