

Converting Colors

XYZ(12.7860, 21.3324, 16.8466)

Have a look what the booklet for
XYZ(12.7860, 21.3324, 16.8466)
contains.

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Color

**XYZ(12.7753, 21.3223,
16.8069)**

Conversions

Conversions Part 1

Format	Color
Hex	089169
RGB	8, 145, 105
RGB Percent	3%, 57%, 41%
CMY	0.9686, 0.4314, 0.5882
CMYK	0.94, 0.00, 0.28, 0.43
HSL	162°, 90%, 30%
HSV	162°, 94%, 57%
XYZ	12.7753, 21.3223, 16.8069
YIQ	99.4770, -68.8120, -41.4840

Conversions

Conversions Part 2

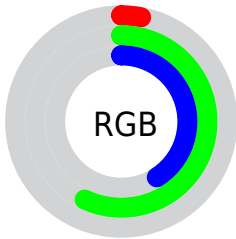
Format	Color
RYB	8, 88, 145
Decimal	561513
CIELab	53.30, -42.59, 12.20
CIELCh	53, 44.299, 164.016
Yxy	21.3223, 0.2510, 0.4189
Android (android.graphics.Color)	4278751593 (0xFF089169)
YUV	99.4770, 2.7228, -80.2253
Hunter-Lab	46.1761, -31.4234, 10.7432

Details

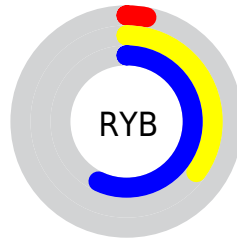
The XYZ color **12.7753, 21.3223, 16.8069** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **12.2981, 6.4073, 3.3859**, and the grayscale version is **11.9869, 12.6111, 13.7335**.

A 20% lighter version of the original color is **30.4928, 45.6873, 38.6639**, and **4.6781, 8.1342, 5.3265** is the 20% darker color. If you saturate the color by 10%, you get **12.5571, 21.2240, 16.1783**, and if you desaturate by 10%, it is **13.2410, 21.5371, 17.9937**.

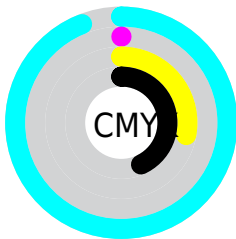
Distribution



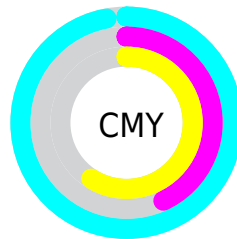
- Red (3%)
- Green (57%)
- Blue (41%)



- Red (3%)
- Yellow (35%)
- Blue (57%)



- Cyan (94%)
- Magenta (0%)
- Yellow (28%)
- Black (43%)



- Cyan (97%)
- Magenta (43%)
- Yellow (59%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7753, 21.3223, 16.8069 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 12.7753, 21.3223, 16.8069 by changing the saturation by 10% instead.

■ 12.7753, 21.3223,
16.8069

■ 12.7753, 21.3223,
16.8069

203.1394,
258.9864, 246.0633

■ 7.3499, 13.3598,
9.9364

■ 30.5043, 45.6233,
38.7796

■ 3.7302, 7.6768,
5.2518

■ 43.5386, 62.7306,
54.7188

■ 1.5506, 3.8888,
2.3344

■ 59.8399, 83.6550,
74.5181

■ 0.3599, 1.6116,
0.7504

■ 79.7736, 108.7808,
98.5959

■ 0.0000, 0.3654,
0.0000

■ 103.7051,
138.4924, 127.3707

■ 0.0000, 0.0000,
0.0000

■ 131.9996,

173.1743, 161.2613

165.0226,
213.2109, 200.6859

■ 12.7753, 21.3223,
16.8069

■ 12.7753, 21.3223,
16.8069

■ 12.5571, 21.2240,
16.1783

■ 13.2410, 21.5371,
17.9937

■ 13.8962, 21.8478,
19.2463

■ 14.7692, 22.2696,
20.5673

■ 15.8821, 22.8137,
21.9583

■ 17.2542, 23.4900,
23.4212

■ 18.9026, 24.3075,
24.9574

■ 20.8432, 25.2743,
26.5685

■ 23.0903, 26.3977,
28.2557

■ 25.6577, 27.6848,
30.0204

Harmonies

Analogous

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



14.6244, 21.3223, 9.1574



12.7753, 21.3223, 16.8069



12.7165, 21.3223, 30.0489

Triad

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



12.7753, 21.3223, 16.8069



22.5293, 21.3223, 58.3632



27.4665, 21.3223, 9.4988

Complementary

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



12.7753, 21.3223, 16.8069



12.2981, 6.4073, 3.3859

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.



30.3334, 21.3223, 17.5070



12.7753, 21.3223, 16.8069



27.1993, 21.3223, 47.1780

Square

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



12.7753, 21.3223, 16.8069



17.8834, 21.3223, 57.9398



30.2287, 21.3223, 31.0777



22.8518, 21.3223, 6.1887

Rectangle

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



12.7753, 21.3223, 16.8069



13.6736, 21.3223, 40.8656



30.2287, 21.3223, 31.0777



28.6962, 21.3223, 11.5595

Sweetspot

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



12.7759, 21.3231, 16.8074



35.8336, 44.5168, 46.3775



11.4414, 20.9247, 3.6658



7.6766, 9.7563, 10.0694



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844

Same Dimension

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



12.7759, 21.3231, 16.8074



22.4084, 37.9764, 28.5579



11.6431, 14.9598, 29.0629



5.4941, 6.0898, 6.5675



10.7819, 18.2086, 13.9374



0.1127, 0.1779, 0.1839

Inverse Universe

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



12.2981, 6.4073, 3.3859



21.6039, 11.0573, 4.6225



12.3344, 7.2637, 0.9819



5.4696, 5.4484, 5.9711



10.3897, 5.3129, 2.4378



0.1080, 0.0543, 0.0689

Previews

White Background



This preview shows how the XYZ color 12.7753, 21.3223, 16.8069 looks on a white 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

Black Background



This preview shows how the XYZ color 12.7753, 21.3223, 16.8069 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

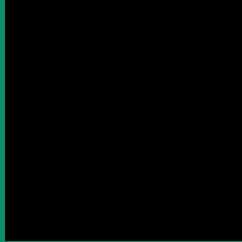
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.7753, 21.3223, 16.8069

Background



This preview shows how black text looks on a background with the XYZ color 12.7753, 21.3223, 16.8069.



This preview shows how white text looks on a background with the XYZ color 12.7753, 21.3223,

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

12.7753, 21.3223, 16.8069

Protanopia

19.5638, 20.9171, 14.0726

Deuteranopia

21.4511, 21.0646, 17.6871



Tritanopia

15.9566, 21.2956, 32.1236

Trichromacy



Original Color

12.7753, 21.3223, 16.8069

Protanomaly

14.7595, 19.7998, 14.8482

Deuteranomaly

15.4087, 19.4809, 17.1354

Tritanomaly

14.4552, 21.0943, 25.8640

Monochromacy



Original Color

12.7753, 21.3223, 16.8069

Achromatopsia

11.8596, 12.4772, 13.5877

Achromatomaly

10.8411, 14.5886, 14.5564

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7753, 21.3223, 16.8069 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(8, 145, 105)` looks like.

```
.text, #text, p{  
    color:rgb(8, 145, 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(8, 145, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(8, 145, 105) }
```

Border

The CSS property to change the border of an element to XYZ 12.7753, 21.3223, 16.8069 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(8, 145, 105) }
```


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

```
.border{ border-color:rgb(8, 145, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(8, 145, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(8, 145, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(8, 145, 105);  
box-shadow:4px 4px 4px 4px rgb(8, 145,  
105) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7753, 21.3223, 16.8069 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(8, 145, 105) }
```

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

```
.background{ background-color: rgb(8, 145,  
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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