

Converting Colors

XYZ(9.5288, 20.8639, 12.7328)

Have a look what the booklet for
XYZ(9.5288, 20.8639, 12.7328)
contains.

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Color

**XYZ(12.6678, 22.5173,
12.9111)**

Conversions

Conversions Part 1

Format	Color
Hex	009658
RGB	0, 150, 88
RGB Percent	0%, 59%, 35%
CMY	1.0000, 0.4118, 0.6549
CMYK	1.00, 0.00, 0.41, 0.41
HSL	155°, 100%, 29%
HSV	155°, 100%, 59%
XYZ	12.6678, 22.5173, 12.9111
YIQ	98.0820, -69.4980, -51.0820

Conversions

Conversions Part 2

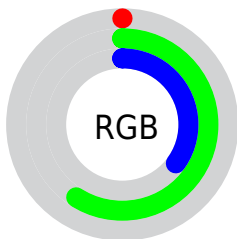
Format	Color
RYB	0, 95, 150
Decimal	38488
CIELab	54.57, -48.79, 23.42
CIELCh	55, 54.115, 154.358
Yxy	22.5173, 0.2634, 0.4682
Android (android.graphics.Color)	4278228568 (0xFF009658)
YUV	98.0820, -4.9704, -86.0179
Hunter-Lab	47.4524, -35.3897, 17.0847

Details

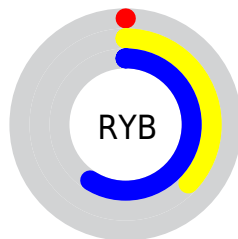
The XYZ color **12.6678, 22.5173, 12.9111** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **13.4480, 6.8323, 5.1685**, and the grayscale version is **11.6551, 12.2620, 13.3533**.

A 20% lighter version of the original color is **30.2378, 47.4580, 31.9927**, and **4.7679, 8.8955, 3.5635** is the 20% darker color. If you saturate the color by 10%, you get **12.6682, 22.5181, 12.9110**, and if you desaturate by 10%, it is **13.1333, 22.7270, 14.3318**.

Distribution



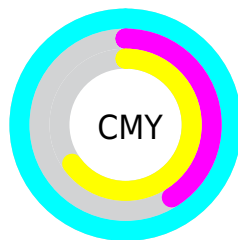
- Red (0%)
- Green (59%)
- Blue (35%)



- Red (0%)
- Yellow (37%)
- Blue (59%)



- Cyan (100%)
- Magenta (0%)
- Yellow (41%)
- Black (41%)



- Cyan (100%)
- Magenta (41%)
- Yellow (65%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.6678, 22.5173, 12.9111 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 12.6678, 22.5173, 12.9111 by changing the saturation by 10% instead.

■ 12.6678, 22.5173,
12.9111

■ 12.6678, 22.5173,
12.9111

202.4585,
265.2360, 221.5349

■ 7.2756, 14.2375,
7.2374

■ 30.3121, 47.5995,
31.8328

■ 3.6829, 8.2860,
3.5303

■ 43.2949, 65.1707,
45.9179

■ 1.5244, 4.2785,
1.3714

■ 59.5386, 86.6078,
63.6438

■ 0.3423, 1.8305,
0.1192

■ 79.4086, 112.2952,
85.4291

■ 0.0000, 0.5061,
0.0000

■ 103.2702,
142.6174, 111.6923

■ 0.0000, 0.0000,
0.0000

■ 131.4889,

177.9586, 142.8520

164.4298,
218.7033, 179.3267

■ 12.6678, 22.5173,
12.9111

■ 12.6678, 22.5173,
12.9111

■ 12.6682, 22.5181,
12.9110

■ 13.1333, 22.7270,
14.3318

■ 13.7622, 23.0176,
15.8764

■ 14.6223, 23.4248,
17.5514

■ 15.7403, 23.9623,
19.3603

■ 17.1390, 24.6417,
21.3069

■ 18.8388, 25.4735,
23.3944

■ 20.8577, 26.4670,
25.6260

■ 23.2126, 27.6308,
28.0048

■ 25.9191, 28.9729,
30.5338

Harmonies

Analogous

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



15.5812, 22.5173, 6.2140



12.6678, 22.5173, 12.9111



11.9136, 22.5173, 27.0884

Triad

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



12.6678, 22.5173, 12.9111



22.2818, 22.5173, 73.7390



32.2841, 22.5173, 10.3018

Complementary

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



12.6678, 22.5173, 12.9111



13.4480, 6.8323, 5.1685

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.



34.9311, 22.5173, 22.1146



12.6678, 22.5173, 12.9111



28.5173, 22.5173, 62.6512

Square

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



12.6678, 22.5173, 12.9111



16.8299, 22.5173, 67.4135



33.4393, 22.5173, 41.5730



26.7352, 22.5173, 5.2706

Rectangle

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



12.6678, 22.5173, 12.9111



12.5917, 22.5173, 40.6359



33.4393, 22.5173, 41.5730



33.5851, 22.5173, 13.3490

Sweetspot

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



12.6684, 22.5182, 12.9116



36.5792, 46.5939, 44.9807



12.9252, 22.8541, 3.7302



7.7944, 10.1721, 9.6315



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896

Same Dimension

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



12.6684, 22.5182, 12.9116



22.2671, 39.7025, 22.3177



14.5227, 20.2368, 31.9960



5.8637, 6.5221, 6.8931



10.5225, 18.6818, 10.7930



0.1435, 0.2345, 0.2095

Inverse Universe

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



13.4480, 6.8323, 5.1685



23.6488, 12.0237, 8.6846



12.7159, 6.7597, 0.6347



5.8943, 5.8528, 6.5493



11.1681, 5.6723, 4.3665



0.1508, 0.0751, 0.1276

Previews

White Background



This preview shows how the XYZ color 12.6678, 22.5173, 12.9111 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 12.6678, 22.5173, 12.9111 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 12.6678, 22.5173, 12.9111

Background



This preview shows how black text looks on a background with the XYZ color 12.6678, 22.5173, 12.9111.



This preview shows how white text looks on a background with the XYZ color 12.6678, 22.5173,

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

12.6678, 22.5173, 12.9111

Protanopia

20.5859, 22.2952, 10.8078

Deuteranopia

22.5545, 22.0935, 13.6654



Tritanopia

17.0813, 22.4913, 34.0128

Trichromacy



Original Color

12.6678, 22.5173, 12.9111



Protanomaly

14.7234, 20.6895, 11.4011



Deuteranomaly

15.3563, 20.1444, 13.2041



Tritanomaly

14.8478, 22.2198, 24.6254

Monochromacy



Original Color

12.6678, 22.5173, 12.9111



Achromatopsia

11.6093, 12.2139, 13.3009



Achromatomaly

10.3683, 14.5549, 12.8526

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.6678, 22.5173, 12.9111 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(0, 150, 88)` looks like.

```
.text, #text, p{  
    color:rgb(0, 150, 88)  
}
```

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(0, 150, 88) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 150, 88) }
```

Border

The CSS property to change the border of an element to XYZ 12.6678, 22.5173, 12.9111 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(0, 150, 88) }
```


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

```
.border{ border-color:rgb(0, 150, 88) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 150, 88)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 150, 88); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 150, 88);  
box-shadow:4px 4px 4px 4px rgb(0, 150, 88)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.6678, 22.5173, 12.9111 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 150, 88) }
```

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

```
.background{ background-color: rgb(0, 150,  
88) }
```

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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