

Converting Colors

XYZ(12.8103, 18.5582, 21.8526)

Have a look what the booklet for
XYZ(12.8103, 18.5582, 21.8526)
contains.

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Color

**XYZ(12.9007, 18.6814,
21.9947)**

Conversions

Conversions Part 1

Format	Color
Hex	28857C
RGB	40, 133, 124
RGB Percent	16%, 52%, 49%
CMY	0.8431, 0.4784, 0.5137
CMYK	0.70, 0.00, 0.07, 0.48
HSL	174°, 54%, 34%
HSV	174°, 70%, 52%
XYZ	12.9007, 18.6814, 21.9947
YIQ	104.1670, -52.5390, -22.5150

Conversions

Conversions Part 2

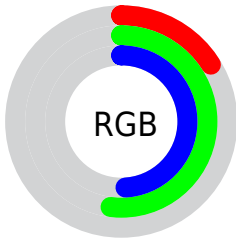
Format	Color
R_{YB}	40, 89, 133
Decimal	2655612
CIE _{Lab}	50.31, -28.87, -3.02
CIE _{LCh}	50, 29.029, 185.968
Yxy	18.6814, 0.2408, 0.3487
Android (android.graphics.Color)	4280845692 (0xFF28857C)
YUV	104.1670, 9.7777, -56.2745
Hunter-Lab	43.2220, -22.3606, 0.0840




Details

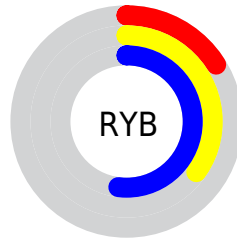
The XYZ color **12.9007, 18.6814, 21.9947** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **10.9867, 6.7265, 3.6257**, and the grayscale version is **13.1882, 13.8750, 15.1098**.




A 20% lighter version of the original color is **30.7524, 41.3279, 47.4306**, and **4.3633, 6.6945, 7.7188** is the 20% darker color. If you saturate the color by 10%, you get **12.3893, 18.4275, 21.5489**, and if you desaturate by 10%, it is **13.5922, 19.0289, 22.4553**.

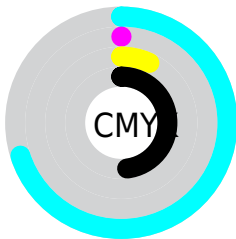
Distribution







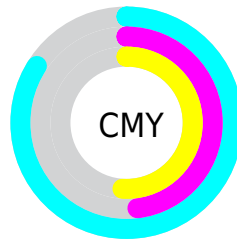
-  Red (16%)
-  Green (52%)
-  Blue (49%)






-  Red (16%)
-  Yellow (35%)
-  Blue (52%)



-  Cyan (70%)
-  Magenta (0%)
-  Yellow (7%)
-  Black (48%)



-  Cyan (84%)
-  Magenta (48%)
-  Yellow (51%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9007, 18.6814, 21.9947 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 12.9007, 18.6814, 21.9947 by changing the saturation by 10% instead.

■ 12.9007, 18.6814,
21.9947

■ 12.9007, 18.6814,
21.9947

■ 203.9308,
244.6842, 275.4712

■ 7.4367, 11.4403,
13.6547

■ 30.7281, 41.1950,
47.6393

■ 3.7854, 6.3638,
7.7449

■ 43.8223, 57.2364,
65.7810

■ 1.5815, 3.0675,
3.8467

■ 60.1905, 76.9799,
88.0271

■ 0.3803, 1.1671,
1.5416

■ 80.1982, 100.8100,
114.7960

■ 0.0000, 0.0346,
0.2487

■ 104.2107,
129.1111, 146.5063

■ 0.0000, 0.0000,
0.0000

■ 132.5934,

162.2676, 183.5766

165.7117,
200.6638, 226.4254

■ 12.9007, 18.6814,
21.9947

■ 12.9007, 18.6814,
21.9947

■ 12.3893, 18.4275,
21.5489

■ 13.5922, 19.0289,
22.4553

■ 12.0372, 18.2553,
21.1157

■ 14.4788, 19.4763,
22.9302

■ 11.7877, 18.1358,
20.6928

■ 15.5754, 20.0319,
23.4204

■ 11.7858, 18.1348,
20.6895

■ 16.8954, 20.7025,
23.9268

■ 18.4507, 21.4944,
24.4498

■ 20.2528, 22.4133,
24.9900

■ 22.3120, 23.4647,
25.5479

■ 24.6384, 24.6536,
26.1240

■ 27.2412, 25.9849,
26.7187

Harmonies

Analogous

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



13.2593, 18.6814, 14.6611



12.9007, 18.6814, 21.9947



13.7277, 18.6814, 30.8653

Triad

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



12.9007, 18.6814, 21.9947



21.1268, 18.6814, 35.6339



20.0517, 18.6814, 9.2180

Complementary

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



12.9007, 18.6814, 21.9947



10.9867, 6.7265, 3.6257

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.



22.5044, 18.6814, 12.5305



12.9007, 18.6814, 21.9947



23.1696, 18.6814, 27.3255

Square

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



12.9007, 18.6814, 21.9947



18.3246, 18.6814, 39.9694



23.6985, 18.6814, 18.7721



17.1995, 18.6814, 8.4950

Rectangle

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



12.9007, 18.6814, 21.9947



14.8972, 18.6814, 36.0720



23.6985, 18.6814, 18.7721



20.9592, 18.6814, 10.0131

Sweetspot

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



12.9012, 18.6821, 21.9951



32.5785, 38.2555, 43.6355



10.0523, 17.5894, 4.8733



7.1895, 8.5422, 9.7816



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052

Same Dimension

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



12.9012, 18.6821, 21.9951



21.7766, 32.7978, 38.1213



9.2740, 10.4746, 23.7241



4.7827, 5.2713, 5.8670



11.2274, 17.2738, 19.7150



0.0403, 0.0604, 0.0757

Inverse Universe

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



10.9867, 6.7265, 3.6257



18.1465, 9.9144, 3.1329



12.7245, 10.4763, 3.3594



4.6895, 4.6955, 4.9775



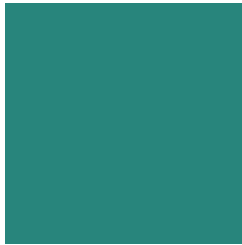
9.2836, 4.7778, 0.7999



0.0333, 0.0170, 0.0086

Previews

White Background



This preview shows how the XYZ color 12.9007, 18.6814, 21.9947 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 12.9007, 18.6814, 21.9947 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

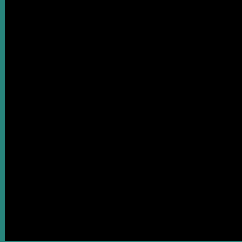
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.9007, 18.6814, 21.9947

Background



This preview shows how black text looks on a background with the XYZ color 12.9007, 18.6814, 21.9947.

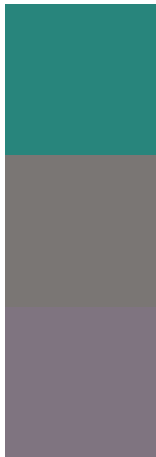


This preview shows how white text looks on a background with the XYZ color 12.9007, 18.6814,

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

12.9007, 18.6814, 21.9947

Protanopia

17.6569, 18.3554, 19.1353

Deuteranopia

18.8941, 18.5613, 23.0089



Tritanopia

14.0570, 18.5413, 28.0373

Trichromacy



Original Color

12.9007, 18.6814, 21.9947

Protanomaly

14.8264, 17.7731, 20.1019

Deuteranomaly

15.5096, 17.8843, 22.7132

Tritanomaly

13.6162, 18.5627, 25.7870

Monochromacy



Original Color

12.9007, 18.6814, 21.9947

Achromatopsia

13.1579, 13.8432, 15.0752

Achromatomaly

12.3933, 15.1585, 17.3116

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9007, 18.6814, 21.9947 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(40, 133, 124)` looks like.

```
.text, #text, p{  
    color:rgb(40, 133, 124)  
}
```

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(40, 133, 124) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(40, 133, 124) }
```

Border

The CSS property to change the border of an element to XYZ 12.9007, 18.6814, 21.9947 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(40, 133, 124) }
```


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

```
.border{ border-color:rgb(40, 133, 124) }
```

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

Here you see how a box with a 4 pixel `rgb(40, 133, 124)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(40, 133, 124); -webkit-box-  
shadow:4px 4px 4px 4px rgb(40, 133, 124);  
box-shadow:4px 4px 4px 4px rgb(40, 133,  
124) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9007, 18.6814, 21.9947 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(40, 133, 124) }
```

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

```
.background{ background-color: rgb(40, 133,  
124) }
```

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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