

Converting Colors

XYZ(12.8558, 18.4187, 24.0107)

Have a look what the booklet for
XYZ(12.8558, 18.4187, 24.0107)
contains.

XYZ(12.8456, 18.4055, 23.9947)	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(12.8456, 18.4055,
23.9947)**

Conversions

Conversions Part 1

Format	Color
Hex	1F8482
RGB	31, 132, 130
RGB Percent	12%, 52%, 51%
CMY	0.8784, 0.4823, 0.4902
CMYK	0.77, 0.00, 0.02, 0.48
HSL	179°, 62%, 32%
HSV	179°, 77%, 52%
XYZ	12.8456, 18.4055, 23.9947
YIQ	101.5730, -59.5540, -22.0340

Conversions

Conversions Part 2

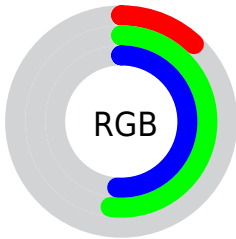
Format	Color
R_{YB}	31, 82, 132
Decimal	2065538
CIE _{Lab}	49.98, -27.82, -7.04
CIE _{LCh}	50, 28.700, 194.195
Yxy	18.4055, 0.2325, 0.3332
Android (android.graphics.Color)	4280255618 (0xFF1F8482)
YUV	101.5730, 14.0145, -61.8925
Hunter-Lab	42.9016, -21.6314, -3.1295

Details

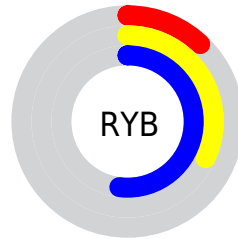
The XYZ color **12.8456, 18.4055, 23.9947** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **10.2808, 5.9959, 2.0549**, and the grayscale version is **12.4946, 13.1453, 14.3152**.

A 20% lighter version of the original color is **30.7222, 40.9164, 51.0782**, and **4.5025, 6.6287, 8.8267** is the 20% darker color. If you saturate the color by 10%, you get **12.5092, 18.2345, 23.8878**, and if you desaturate by 10%, it is **13.3461, 18.6619, 24.1103**.

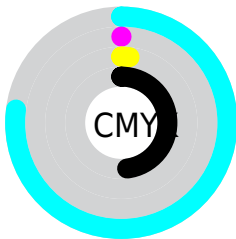
Distribution



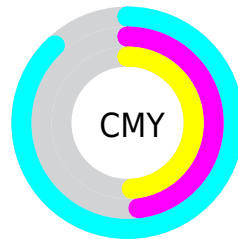
- Red (12%)
- Green (52%)
- Blue (51%)



- Red (12%)
- Yellow (32%)
- Blue (52%)



- Cyan (77%)
- Magenta (0%)
- Yellow (2%)
- Black (48%)



- Cyan (88%)
- Magenta (48%)
- Yellow (49%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8456, 18.4055, 23.9947 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 12.8456, 18.4055, 23.9947 by changing the saturation by 10% instead.

■ 12.8456, 18.4055,
23.9947

■ 12.8456, 18.4055,
23.9947

■ 203.5834,
243.1468, 286.0794

■ 7.3986, 11.2415,
15.1175

■ 30.6298, 40.7271,
50.9653

■ 3.7611, 6.2295,
8.7544

■ 43.6977, 56.6535,
69.8958

■ 1.5679, 2.9851,
4.4867

■ 60.0366, 76.2694,
93.0144

■ 0.3714, 1.1240,
1.8960

■ 80.0118, 99.9594,
120.7398

■ 0.0000, 0.0000,
0.4902

■ 103.9888,
128.1077, 153.4905

■ 0.0000, 0.0000,
0.0000

■ 132.3328,

161.0988, 191.6849

165.4092,
199.3170, 235.7417

■ 12.8456, 18.4055,
23.9947

■ 12.8456, 18.4055,
23.9947

■ 12.5092, 18.2345,
23.8878

■ 13.3461, 18.6619,
24.1103

■ 12.3035, 18.1305,
23.7869

■ 14.0268, 19.0107,
24.2341

■ 12.2397, 18.0983,
23.7521

■ 14.9036, 19.4607,
24.3674

■ 15.9905, 20.0190,
24.5107

■ 17.2999, 20.6920,
24.6647

■ 18.8434, 21.4856,
24.8299

■ 20.6319, 22.4055,
25.0067

■ 22.6753, 23.4569,
25.1958

■ 24.9833, 24.6447,
25.3974

Harmonies

Analogous

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



12.8770, 18.4055, 16.1869



12.8456, 18.4055, 23.9947



13.9650, 18.4055, 32.5819

Triad

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



12.8456, 18.4055, 23.9947



21.4515, 18.4055, 33.0001



18.9762, 18.4055, 8.7026

Complementary

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



12.8456, 18.4055, 23.9947



10.2808, 5.9959, 2.0549

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.



21.5722, 18.4055, 11.2178



12.8456, 18.4055, 23.9947



23.1003, 18.4055, 24.4616

Square

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



12.8456, 18.4055, 23.9947



18.8250, 18.4055, 38.6336



23.1467, 18.4055, 16.5464



16.2270, 18.4055, 8.6396

Rectangle

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



12.8456, 18.4055, 23.9947



15.2883, 18.4055, 37.0310



23.1467, 18.4055, 16.5464



19.9019, 18.4055, 9.2523

Sweetspot

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



12.8462, 18.4062, 23.9951



31.2433, 36.8439, 43.5306



9.1710, 16.9485, 4.0849



7.0858, 8.4812, 10.1140



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.



12.8462, 18.4062, 23.9951



21.7539, 31.9772, 41.9426



7.9687, 8.4342, 23.0384



4.7977, 5.2773, 5.9461



11.8510, 17.5233, 22.9986



0.0414, 0.0608, 0.0813

Inverse Universe

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



10.2808, 5.9959, 2.0549



17.0140, 8.9861, 1.3592



12.4977, 10.4731, 2.6597



4.6760, 4.6901, 4.9063



9.2277, 4.7554, 0.5055



0.0322, 0.0166, 0.0030

Previews

White Background



This preview shows how the XYZ color 12.8456, 18.4055, 23.9947 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 12.8456, 18.4055, 23.9947 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

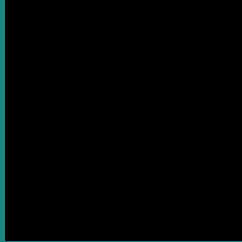
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.8456, 18.4055, 23.9947

Background



This preview shows how black text looks on a background with the XYZ color 12.8456, 18.4055, 23.9947.



This preview shows how white text looks on a background with the XYZ color 12.8456, 18.4055,

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

12.8456, 18.4055, 23.9947

Protanopia

17.5374, 18.2593, 20.6892

Deuteranopia

18.4598, 18.1203, 25.0789



Tritanopia

13.6271, 18.3197, 28.0171

Trichromacy



Original Color

12.8456, 18.4055, 23.9947

Protanomaly

14.6515, 17.6474, 21.7029

Deuteranomaly

15.1908, 17.4920, 24.7660

Tritanomaly

13.3592, 18.4138, 26.5170

Monochromacy



Original Color

12.8456, 18.4055, 23.9947

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

11.8102, 14.5166, 17.5088

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8456, 18.4055, 23.9947 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(31, 132, 130)` looks like.

```
.text, #text, p{  
    color:rgb(31, 132, 130)  
}
```

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(31, 132, 130) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 132, 130) }
```

Border

The CSS property to change the border of an element to XYZ 12.8456, 18.4055, 23.9947 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(31, 132, 130) }
```


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

```
.border{ border-color:rgb(31, 132, 130) }
```

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

Here you see how a box with a 4 pixel `rgb(31, 132, 130)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(31, 132, 130); -webkit-box-shadow:4px 4px 4px 4px rgb(31, 132, 130); box-shadow:4px 4px 4px 4px rgb(31, 132, 130) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8456, 18.4055, 23.9947 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 132, 130) }
```

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

```
.background{ background-color: rgb(31, 132,  
130) }
```

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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