

Converting Colors

XYZ(12.7492, 22.2398, 29.7273)

Have a look what the booklet for
XYZ(12.7492, 22.2398, 29.7273)
contains.

XYZ(15.8643, 23.7959, 29.7435)	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(15.8643, 23.7959,
29.7435)**

Conversions

Conversions Part 1

Format	Color
Hex	00968F
RGB	0, 150, 143
RGB Percent	0%, 59%, 56%
CMY	0.9999, 0.4118, 0.4392
CMYK	1.00, 0.00, 0.05, 0.41
HSL	177°, 100%, 29%
HSV	177°, 100%, 59%
XYZ	15.8643, 23.7959, 29.7435
YIQ	104.3520, -87.1530, -33.9770

Conversions

Conversions Part 2

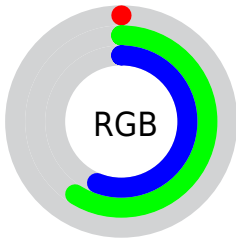
Format	Color
RYB	0, 77, 150
Decimal	38543
CIELab	55.88, -34.55, -5.83
CIELCh	56, 35.035, 189.586
Yxy	23.7959, 0.2286, 0.3429
Android (android.graphics.Color)	4278228623 (0xFF00968F)
YUV	104.3520, 19.0535, -91.5167
Hunter-Lab	48.7810, -27.3160, -2.0044

Details

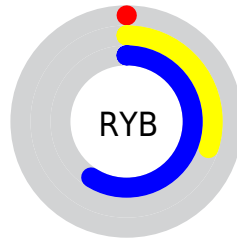
The XYZ color **15.8643, 23.7959, 29.7435** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **12.6168, 6.5001, 0.7914**, and the grayscale version is **13.2218, 13.9103, 15.1483**.

A 20% lighter version of the original color is **36.0292, 49.8177, 60.5402**, and **6.3435, 9.5257, 11.8602** is the 20% darker color. If you saturate the color by 10%, you get **15.8646, 23.7966, 29.7436**, and if you desaturate by 10%, it is **16.1153, 23.9197, 30.0336**.

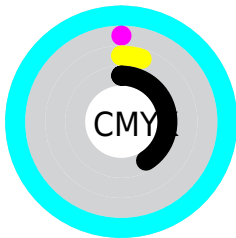
Distribution



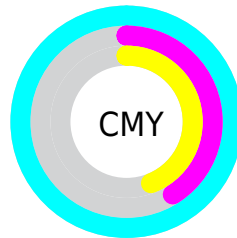
- Red (0%)
- Green (59%)
- Blue (56%)



- Red (0%)
- Yellow (30%)
- Blue (59%)



- Cyan (100%)
- Magenta (0%)
- Yellow (5%)
- Black (41%)



- Cyan (100%)
- Magenta (41%)
- Yellow (44%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 15.8643, 23.7959, 29.7435 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 15.8643, 23.7959, 29.7435 by changing the saturation by 10% instead.

■ 15.8643, 23.7959,
29.7435

■ 15.8643, 23.7959,
29.7435

221.8258,
271.7870, 314.8770

■ 9.5184, 15.1823,
19.3936

■ 35.9218, 49.6969,
60.3125

■ 5.1406, 8.9474,
11.7753

■ 50.3642, 67.7531,
81.3687

■ 2.3656, 4.7069,
6.4702

■ 68.2360, 89.7257,
106.8307

■ 0.8279, 2.0763,
3.0597

■ 89.9028, 115.9989,
137.1170

■ 0.0000, 0.6513,
1.1252

■ 115.7298,
146.9573, 172.6463

■ 0.0000, 0.0000,
0.0000

■ 146.0824,

182.9852, 213.8370

181.3259,
224.4669, 261.1078

■ 15.8643, 23.7959,
29.7435

■ 15.8643, 23.7959,
29.7435

■ 15.8646, 23.7966,
29.7436

■ 16.1153, 23.9197,
30.0336

■ 16.5076, 24.1157,
30.3315

■ 17.1086, 24.4193,
30.6409

■ 17.9445, 24.8440,
30.9630

■ 19.0377, 25.4012,
31.2989

■ 20.4079, 26.1013,
31.6496

■ 22.0729, 26.9532,
32.0157

■ 24.0490, 27.9655,
32.3982

■ 26.3514, 29.1460,
32.7977

Harmonies

Analogous

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



16.1620, 23.7959, 18.9763



15.8643, 23.7959, 29.7435



17.2048, 23.7959, 42.5849

Triad

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



15.8643, 23.7959, 29.7435



27.8670, 23.7959, 46.8005



25.4004, 23.7959, 10.2908

Complementary

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



15.8643, 23.7959, 29.7435



12.6168, 6.5001, 0.7914

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.



29.0603, 23.7959, 14.2788



15.8643, 23.7959, 29.7435



30.5965, 23.7959, 34.3545

Square

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



15.8643, 23.7959, 29.7435



23.9191, 23.7959, 54.1758



31.0572, 23.7959, 22.4203



21.3636, 23.7959, 9.7218

Rectangle

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



15.8643, 23.7959, 29.7435



18.9513, 23.7959, 49.8534



31.0572, 23.7959, 22.4203



26.7280, 23.7959, 11.2048

Sweetspot

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



15.8650, 23.7968, 29.7441



38.7589, 47.4658, 56.4588



11.0010, 21.8620, 3.6406



8.3310, 10.3867, 12.4571



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.



15.8650, 23.7968, 29.7441



27.9782, 41.9870, 52.3921



8.5615, 8.3142, 30.0087



5.9525, 6.5576, 7.3610



13.1607, 19.7371, 24.6855



0.1640, 0.2427, 0.3174

Inverse Universe

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



12.6168, 6.5001, 0.7914



22.2464, 11.4627, 1.2998



14.6161, 10.5599, 1.2686



5.8111, 5.8195, 6.1115



10.4669, 5.3918, 0.6736



0.1303, 0.0669, 0.0197

Previews

White Background



This preview shows how the XYZ color 15.8643, 23.7959, 29.7435 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 15.8643, 23.7959, 29.7435 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

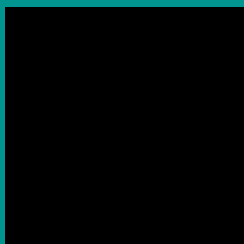
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

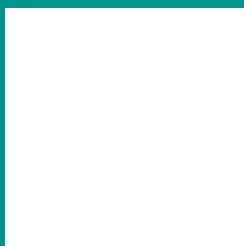
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 15.8643, 23.7959, 29.7435

Background



This preview shows how black text looks on a background with the XYZ color 15.8643, 23.7959, 29.7435.



This preview shows how white text looks on a background with the XYZ color 15.8643, 23.7959,

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

15.8643, 23.7959, 29.7435

Protanopia

22.7745, 23.7028, 25.5650

Deuteranopia

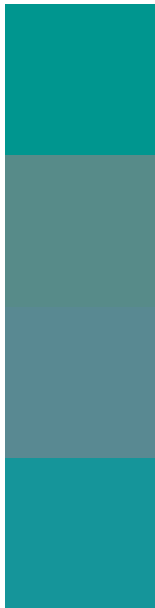
24.0643, 23.6473, 30.8998



Tritanopia

17.5623, 24.0412, 36.9725

Trichromacy



Original Color

15.8643, 23.7959, 29.7435

Protanomaly

17.6785, 22.2976, 27.0390

Deuteranomaly

18.2538, 22.0905, 30.4959

Tritanomaly

16.8894, 23.9874, 34.3117

Monochromacy



Original Color

15.8643, 23.7959, 29.7435

Achromatopsia

13.1579, 13.8432, 15.0752

Achromatomaly

12.3542, 16.1410, 19.6039

CSS Examples

Text

The CSS property to change the color of the text to XYZ 15.8643, 23.7959, 29.7435 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, 143)` looks like.

```
.text, #text, p{  
    color:rgb(0, 150, 143)  
}
```

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, 143) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 150, 143) }
```

Border

The CSS property to change the border of an element to XYZ 15.8643, 23.7959, 29.7435 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, 143) }
```


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

```
.border{ border-color:rgb(0, 150, 143) }
```

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, 143)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 150, 143); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 150, 143);  
box-shadow:4px 4px 4px 4px rgb(0, 150,  
143) }
```

Background

The CSS property to change the background color of an element to XYZ 15.8643, 23.7959, 29.7435 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, 143) }
```

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

```
.background{ background-color: rgb(0, 150,  
143) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor