

# Converting Colors

XYZ(7.3366, 21.8872, 19.0228)

Have a look what the booklet for  
XYZ(7.3366, 21.8872, 19.0228)  
contains.

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# Color

**XYZ(15.3228, 25.9661,  
19.5336)**

# Conversions

## Conversions Part 1

Format	Color
Hex	009F70
RGB	0, 159, 112
RGB Percent	0%, 62%, 44%
CMY	0.9999, 0.3765, 0.5608
CMYK	1.00, 0.00, 0.30, 0.38
HSL	162°, 100%, 31%
HSV	162°, 100%, 62%
XYZ	15.3228, 25.9661, 19.5336
YIQ	106.1010, -79.6770, -48.3250

# Conversions

## Conversions Part 2

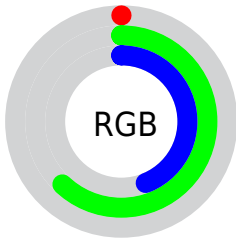
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 93, 159
Decimal	40816
CIELab	58.00, -46.86, 14.80
CIELCh	58, 49.141, 162.477
Yxy	25.9661, 0.2519, 0.4269
Android (android.graphics.Color)	4278230896 (0xFF009F70)
YUV	106.1010, 2.9082, -93.0506
Hunter-Lab	50.9569, -35.4995, 12.9419

# Details

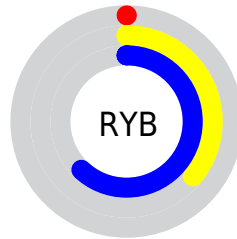
The XYZ color **15.3228, 25.9661, 19.5336** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **14.8122, 7.5769, 3.3731**, and the grayscale version is **13.7369, 14.4523, 15.7386**.

A 20% lighter version of the original color is **35.1211, 53.4051, 43.5791**, and **6.0794, 10.6782, 6.5912** is the 20% darker color. If you saturate the color by 10%, you get **15.3230, 25.9669, 19.5327**, and if you desaturate by 10%, it is **15.8042, 26.1839, 20.9590**.

# Distribution



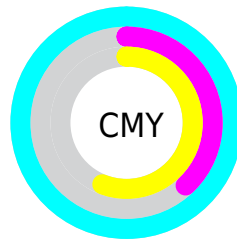
- Red (0%)
- Green (62%)
- Blue (44%)



- Red (0%)
- Yellow (36%)
- Blue (62%)



- Cyan (100%)
- Magenta (0%)
- Yellow (30%)
- Black (38%)




- Cyan (100%)
- Magenta (38%)
- Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 15.3228, 25.9661, 19.5336 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 15.3228, 25.9661, 19.5336 by changing the saturation by 10% instead.





 15.3228, 25.9661,  
19.5336


 15.3228, 25.9661,  
19.5336


218.6617,  
282.6156, 261.8991


 9.1340, 16.7983,  
11.8758


 34.9855, 53.2203,  
43.4825


 4.8865, 10.0908,  
6.5376


 49.1902, 72.0754,  
60.6106


 2.2149, 5.4592,  
3.1006

 66.7975, 94.9284,  
81.7326

 0.7506, 2.5191,  
1.1462

 88.1728, 122.1637,  
107.2669

 0.0000, 0.8862,  
0.0000

 113.6816,  
154.1657, 137.6322

 0.0000, 0.0000,  
0.0000

 143.6891,

191.3187, 173.2470

178.5606,  
234.0072, 214.5298

■ 15.3228, 25.9661,  
19.5336

■ 15.3228, 25.9661,  
19.5336

■ 15.3230, 25.9669,  
19.5327

■ 15.8042, 26.1839,  
20.9590

■ 16.4645, 26.4917,  
22.4646

■ 17.3768, 26.9277,  
24.0554

■ 18.5716, 27.5077,  
25.7338

■ 20.0751, 28.2452,  
27.5022

■ 21.9103, 29.1520,  
29.3624

■ 24.0979, 30.2388,  
31.3166

■ 26.6570, 31.5153,  
33.3663

■ 29.6053, 32.9908,  
35.5136

# Harmonies

## Analogous

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



17.7511, 25.9661, 10.3754



15.3228, 25.9661, 19.5336



15.1344, 25.9661, 35.9336

# Triad

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



15.3228, 25.9661, 19.5336



27.2272, 25.9661, 73.6644



34.0846, 25.9661, 11.4532

# Complementary

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



15.3228, 25.9661, 19.5336



14.8122, 7.5769, 3.3731

# 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.



37.5758, 25.9661, 21.7862



15.3228, 25.9661, 19.5336



33.2115, 25.9661, 59.8574

# Square

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



15.3228, 25.9661, 19.5336



21.4026, 25.9661, 72.2639



37.2329, 25.9661, 39.2928



28.2760, 25.9661, 7.1621



# Rectangle

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



15.3228, 25.9661, 19.5336



16.2541, 25.9661, 49.6905



37.2329, 25.9661, 39.2928



35.6070, 25.9661, 14.1096

# Sweetspot

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



15.3235, 25.9671, 19.5342



42.9101, 54.0308, 55.8751



13.6041, 25.4186, 4.1898



9.3091, 11.9997, 12.2800



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444



# Same Dimension

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



15.3235, 25.9671, 19.5342



27.3525, 46.4673, 34.5130



13.8744, 17.7353, 35.4940



6.7382, 7.4760, 8.0561



12.1211, 20.5164, 15.5265



0.2342, 0.3738, 0.3697



# Inverse Universe

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



14.8122, 7.5769, 3.3731



26.4506, 13.5383, 5.6428



14.8102, 8.3943, 0.8402



6.7097, 6.6768, 7.3225



11.7149, 5.9905, 2.7497



0.2267, 0.1140, 0.1399



# Previews

## White Background



This preview shows how the XYZ color 15.3228, 25.9661, 19.5336 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 15.3228, 25.9661, 19.5336 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

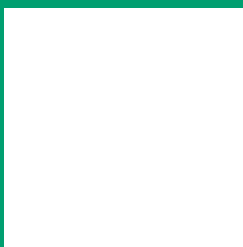
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 15.3228, 25.9661, 19.5336**

## **Background**



This preview shows how black text looks on a background with the XYZ color 15.3228, 25.9661, 19.5336.



This preview shows how white text looks on a background with the XYZ color 15.3228, 25.9661,



# 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

15.3228, 25.9661, 19.5336

### Protanopia

23.9311, 25.5458, 16.5015

### Deuteranopia

25.9556, 25.4540, 20.6846



## Tritanopia

19.4880, 25.9300, 39.5752

# Trichromacy



## Original Color

15.3228, 25.9661, 19.5336



## Protanomaly

17.5997, 24.0313, 17.3466



## Deuteranomaly

18.1922, 23.3737, 20.0757



## Tritanomaly

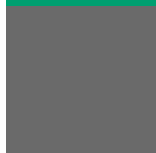
17.5693, 25.8581, 31.2592

# Monochromacy



## Original Color

15.3228, 25.9661, 19.5336



## Achromatopsia

13.6994, 14.4128, 15.6956



## Achromatomaly

12.3551, 16.9432, 16.8065

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 15.3228, 25.9661, 19.5336 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, 159, 112)` looks like.

```
.text, #text, p{  
    color:rgb(0, 159, 112)  
}
```

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, 159, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 159, 112) }
```

## Border

The CSS property to change the border of an element to XYZ 15.3228, 25.9661, 19.5336 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, 159, 112) }
```



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

```
.border{ border-color:rgb(0, 159, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 159, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 159, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 159, 112);  
box-shadow:4px 4px 4px 4px rgb(0, 159,  
112) }
```

# Background

The CSS property to change the background color of an element to XYZ 15.3228, 25.9661, 19.5336 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 159, 112) }
```

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

```
.background{ background-color: rgb(0, 159,  
112) }
```

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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