

# Converting Colors

XYZ(27.8685, 55.1238, 9.1711)

Have a look what the booklet for  
XYZ(27.8685, 55.1238, 9.1711)  
contains.

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# Color

**XYZ(27.8700, 55.1448,  
9.1751)**

# Conversions

## Conversions Part 1

Format	Color
Hex	19E300
RGB	25, 227, 0
RGB Percent	10%, 89%, 0%
CMY	0.9020, 0.1098, 0.9999
CMYK	0.89, 0.00, 1.00, 0.11
HSL	113°, 100%, 45%
HSV	113°, 100%, 89%
XYZ	27.8700, 55.1448, 9.1751
YIQ	140.7240, -47.5250, -113.4210

# Conversions

## Conversions Part 2

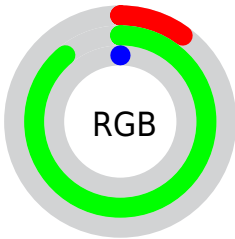
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 227, 202
Decimal	1696512
CIELab	79.12, -77.84, 76.33
CIELCh	79, 109.019, 135.564
Yxy	55.1448, 0.3023, 0.5982
Android (android.graphics.Color)	4279886592 (0xFF19E300)
YUV	140.7240, -69.3769, -101.4899
Hunter-Lab	74.2595, -62.9622, 44.6561

# Details

The XYZ color **27.8700, 55.1448, 9.1751** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **38.2317, 18.1079, 74.1560**, and the grayscale version is **25.4884, 26.8158, 29.2024**.

A 20% lighter version of the original color is **44.7758, 75.9738, 21.1086**, and **14.3747, 28.7495, 4.7916** is the 20% darker color. If you saturate the color by 10%, you get **27.8705, 55.1467, 9.1755**, and if you desaturate by 10%, it is **28.7133, 55.5637, 10.0080**.

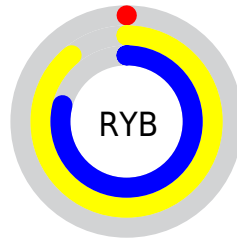
# Distribution



Red (10%)

Green (89%)

Blue (0%)



Red (0%)

Yellow (89%)

Blue (79%)

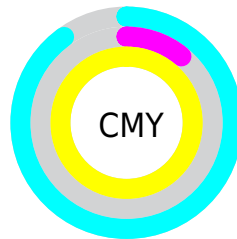


Cyan (89%)

Magenta (0%)

Yellow (100%)

Black (11%)



Cyan (90%)

Magenta (11%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.8700, 55.1448, 9.1751 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 27.8700, 55.1448, 9.1751 by changing the saturation by 10% instead.





 27.8700, 55.1448,  
9.1751


 27.8700, 55.1448,  
9.1751


283.9366,  
406.4606, 194.9447


 18.3676, 39.5177,  
4.7572


 55.6869, 97.7531,  
24.8150


 11.3155, 27.1627,  
2.0493


 74.7322, 125.5030,  
36.8741

 6.3483, 17.6954,  
0.5853


 97.6891, 158.0627,  
52.3174

 3.1007, 10.7315,  
0.0000

 124.9231,  
195.8164, 71.5633

 1.2072, 5.8866,  
0.0000

 156.7995,  
239.1487, 95.0305

 0.1121, 2.7763,  
0.0000

 193.6836,

 0.0000, 1.0161,

288.4439, 123.1374

0.0000

235.9409,  
344.0864, 156.3026

■ 0.0000, 0.0000,  
0.0000

■ 27.8700, 55.1448,  
9.1751

■ 27.8700, 55.1448,  
9.1751

■ 27.8705, 55.1467,  
9.1755

■ 28.7133, 55.5637,  
10.0080

■ 30.1592, 56.2709,  
11.7981

■ 32.3195, 57.3193,  
14.8501

■ 35.2729, 58.7455,  
19.3393

■ 39.0874, 60.5814,  
25.4134

■ 43.8236, 62.8556,  
33.2017

■ 49.5368, 65.5938,  
42.8202

■ 56.2776, 68.8201,  
54.3747

■ 64.0932, 72.5565,  
67.9633

# Harmonies

## Analogous

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



41.9770, 55.1448, 2.7934



27.8700, 55.1448, 9.1751



21.4559, 55.1448, 34.8667

# Triad

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



27.8700, 55.1448, 9.1751



42.6664, 55.1448, 266.6581



103.8852, 55.1448, 33.3059

# Complementary

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



27.8700, 55.1448, 9.1751



38.2317, 18.1079, 74.1560

# 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.



104.2217, 55.1448, 95.1129



27.8700, 55.1448, 9.1751



64.4505, 55.1448, 265.0132

# Square

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



27.8700, 55.1448, 9.1751



28.2537, 55.1448, 192.5363



88.2920, 55.1448, 188.9346



87.4706, 55.1448, 8.7069



# Rectangle

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



27.8700, 55.1448, 9.1751



20.8427, 55.1448, 72.4168



88.2920, 55.1448, 188.9346



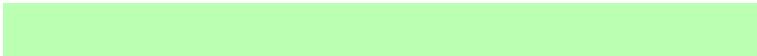
106.0076, 55.1448, 49.1663

# Sweetspot

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



27.8713, 55.1471, 9.1763



64.3193, 85.3088, 55.4594



52.4557, 57.8831, 8.4087



13.0598, 17.9208, 10.6738



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



27.8713, 55.1471, 9.1763



36.2404, 71.7677, 11.9425



29.1923, 55.6292, 18.2236



14.3358, 16.1647, 15.2690



16.3013, 32.1851, 5.3532



1.2541, 2.4039, 0.3979



# Inverse Universe

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



38.2317, 18.1079, 74.1560



49.7110, 23.5419, 96.5317



36.4135, 18.2255, 26.4085



14.8307, 14.5305, 18.1673



22.3567, 10.5912, 43.2491

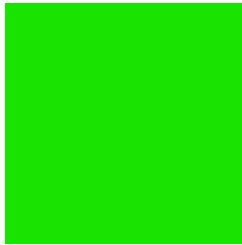


1.6969, 0.8058, 3.1981



# Previews

## White Background



This preview shows how the XYZ color 27.8700, 55.1448, 9.1751 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

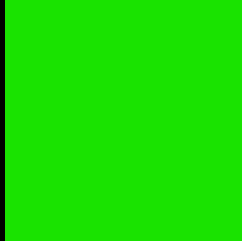
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 27.8700, 55.1448, 9.1751 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

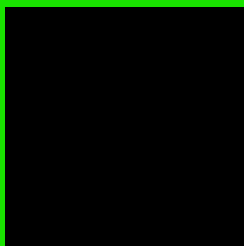
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 27.8700, 55.1448, 9.1751**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.8700, 55.1448, 9.1751.



This preview shows how white text looks on a background with the XYZ color 27.8700, 55.1448,



# 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

27.8700, 55.1448, 9.1751

### Protanopia

48.7285, 54.0903, 7.8722

### Deuteranopia

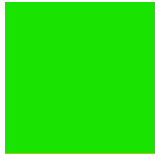
55.0031, 53.7358, 10.3788



## Tritanopia

42.3349, 54.7866, 81.7424

# Trichromacy



## Original Color

27.8700, 55.1448, 9.1751



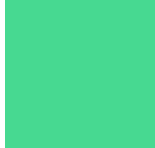
## Protanomaly

34.5256, 50.9215, 8.0092



## Deuteranomaly

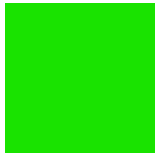
36.2114, 49.3000, 8.9036



## Tritanomaly

32.5222, 53.0096, 35.3058

# Monochromacy



## Original Color

27.8700, 55.1448, 9.1751



## Achromatopsia

25.3171, 26.6356, 29.0061



## Achromatomaly

21.7436, 32.8959, 14.8764

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.8700, 55.1448, 9.1751 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(25, 227, 0)` looks like.

```
.text, #text, p{  
    color:rgb(25, 227, 0)  
}
```

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(25, 227, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(25, 227, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 27.8700, 55.1448, 9.1751 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(25, 227, 0) }
```



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

```
.border{ border-color:rgb(25, 227, 0) }
```

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

Here you see how a box with a 4 pixel rgb(25, 227, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(25, 227, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(25, 227, 0);  
box-shadow:4px 4px 4px 4px rgb(25, 227, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 27.8700, 55.1448, 9.1751 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(25, 227, 0) }
```

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

```
.background{ background-color: rgb(25, 227,  
0) }
```

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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