

# Converting Colors

XYZ(29.5956, 59.1893, 9.8668)

Have a look what the booklet for  
XYZ(29.5956, 59.1893, 9.8668)  
contains.

<b>XYZ(29.7083, 59.4167, 9.9028)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(29.7083, 59.4167,  
9.9028)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00EB00
RGB	0, 235, 0
RGB Percent	0%, 92%, 0%
CMY	1.0000, 0.0784, 0.9999
CMYK	1.00, 0.00, 1.00, 0.08
HSL	120°, 100%, 46%
HSV	120°, 100%, 92%
XYZ	29.7083, 59.4167, 9.9028
YIQ	137.9450, -64.6250, -122.9050

# Conversions

## Conversions Part 2

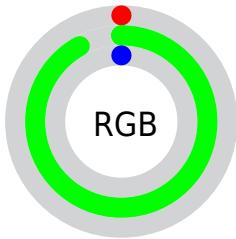
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 235, 235
Decimal	60160
CIELab	81.52, -81.02, 78.20
CIElCh	82, 112.600, 136.016
Yxy	59.4167, 0.3000, 0.6000
Android (android.graphics.Color)	4278250240 (0xFF00EB00)
YUV	137.9450, -68.0069, -120.9778
Hunter-Lab	77.0822, -66.0981, 46.3405

# Details

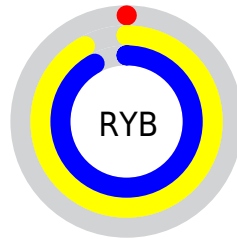
The XYZ color **29.7083, 59.4167, 9.9028** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **49.2536, 23.6594, 80.5462**, and the grayscale version is **24.4082, 25.6793, 27.9647**.

A 20% lighter version of the original color is **44.4609, 75.8020, 21.5204**, and **15.7221, 31.4443, 5.2407** is the 20% darker color. If you saturate the color by 10%, you get **29.7097, 59.4192, 9.9041**, and if you desaturate by 10%, it is **30.2345, 59.6713, 10.7629**.

# Distribution



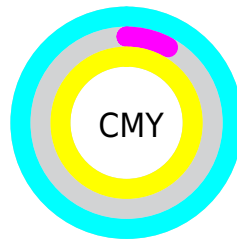
- Red (0%)
- Green (92%)
- Blue (0%)



- Red (0%)
- Yellow (92%)
- Blue (92%)



- Cyan (100%)
- Magenta (0%)
- Yellow (100%)
- Black (8%)




- Cyan (100%)
- Magenta (8%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.7083, 59.4167, 9.9028 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 29.7083, 59.4167, 9.9028 by changing the saturation by 10% instead.





 29.7083, 59.4167,  
9.9028


 29.7083, 59.4167,  
9.9028


292.4767,  
422.4444, 200.4365


 19.7643, 42.9487,  
5.2298


 58.5904, 103.9831,  
26.2175

 12.3311, 29.8448,  
2.3216


 78.2591, 132.8501,  
38.6962


 7.0434, 19.7208,  
0.7433


 101.9001,  
166.6190, 54.6139

 3.5358, 12.1923,  
0.0000

 129.8787,  
205.6741, 74.3892

 1.4430, 6.8748,  
0.0000

 162.5604,  
250.3998, 98.4406

 0.2866, 3.3839,  
0.0000

 200.3103,

 0.0000, 1.3353,

301.1805, 127.1865

0.0000

243.4940,  
358.4006, 161.0457

■ 0.0000, 0.1683,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 29.7083, 59.4167,  
9.9028

■ 29.7083, 59.4167,  
9.9028


■ 29.7097, 59.4192,  
9.9041


■ 30.2345, 59.6713,  
10.7629


■ 31.3955, 60.2289,  
12.6629


■ 33.3938, 61.1888,  
15.9321


■ 36.3472, 62.6074,  
20.7635

 40.3548, 64.5325,  
27.3191

 45.5034, 67.0056,  
35.7406

 51.8707, 70.0642,  
46.1552

 59.5276, 73.7422,  
58.6789

 68.5397, 78.0712,  
73.4187

# Harmonies

## Analogous

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



44.8547, 59.4167, 2.9264



29.7083, 59.4167, 9.9028



22.8904, 59.4167, 38.0946

# Triad

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



29.7083, 59.4167, 9.9028



46.2014, 59.4167, 290.5333



112.2919, 59.4167, 35.0515

# Complementary

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



29.7083, 59.4167, 9.9028



49.2536, 23.6594, 80.5462

# 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.



112.9519, 59.4167, 101.4605



29.7083, 59.4167, 9.9028



69.9438, 59.4167, 287.2979

# Square

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



29.7083, 59.4167, 9.9028



30.4561, 59.4167, 210.5204



95.8276, 59.4167, 203.4437



94.2176, 59.4167, 8.9991



# Rectangle

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



29.7083, 59.4167, 9.9028



22.2958, 59.4167, 79.2956



95.8276, 59.4167, 203.4437



114.6992, 59.4167, 52.0061

# Sweetspot

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



29.7097, 59.4192, 9.9041



62.3223, 84.2791, 55.3716



63.9719, 77.0820, 11.5066



12.6072, 17.6874, 10.6539



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.



29.7097, 59.4192, 9.9041



35.7602, 71.5201, 11.9210



32.9501, 60.7153, 26.9674



14.8685, 16.8622, 15.9902



16.5342, 33.0681, 5.5121



1.2984, 2.5967, 0.4330



# Inverse Universe

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



49.2536, 23.6594, 80.5462



59.2842, 28.4777, 96.9495



37.5029, 18.9591, 18.6677



15.7148, 15.3138, 19.0493



27.4108, 13.1670, 44.8260

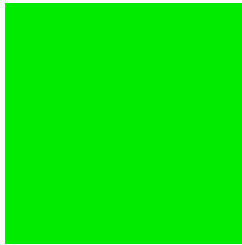


2.1524, 1.0339, 3.5201



# Previews

## White Background



This preview shows how the XYZ color 29.7083, 59.4167, 9.9028 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

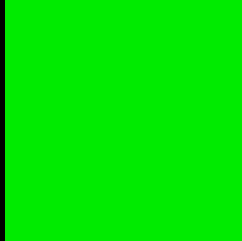
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 29.7083, 59.4167, 9.9028 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

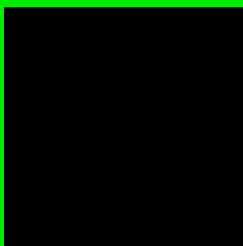
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

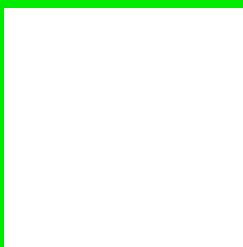
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 29.7083, 59.4167, 9.9028**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.7083, 59.4167, 9.9028.



This preview shows how white text looks on a background with the XYZ color 29.7083, 59.4167,



# 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

29.7083, 59.4167, 9.9028

### Protanopia

52.2507, 57.9420, 8.4300

### Deuteranopia

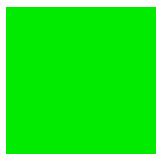
59.1559, 57.7614, 11.1632



## Tritanopia

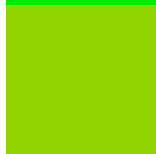
45.3573, 58.8516, 88.3258

# Trichromacy



## Original Color

29.7083, 59.4167, 9.9028



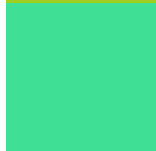
## Protanomaly

35.2958, 53.5178, 8.4697



## Deuteranomaly

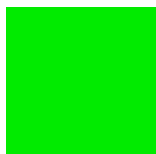
36.8292, 51.7205, 9.4084



## Tritanomaly

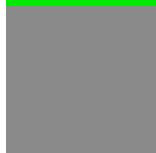
34.2106, 56.5701, 37.9702

# Monochromacy



## Original Color

29.7083, 59.4167, 9.9028



## Achromatopsia

24.1572, 25.4152, 27.6772



## Achromatomaly

20.7295, 32.6664, 14.4452

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.7083, 59.4167, 9.9028 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, 235, 0)` looks like.

```
.text, #text, p{  
    color:rgb(0, 235, 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(0, 235, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 235, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 29.7083, 59.4167, 9.9028 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, 235, 0) }
```



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

```
.border{ border-color:rgb(0, 235, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 235, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 235, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 235, 0); box-shadow:4px  
4px 4px 4px rgb(0, 235, 0) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.7083, 59.4167, 9.9028 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 235, 0) }
```

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

```
.background{ background-color: rgb(0, 235,  
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](#).

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