

# Converting Colors

XYZ(27.8872, 52.5598, 9.2992)

Have a look what the booklet for  
XYZ(27.8872, 52.5598, 9.2992)  
contains.

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# Color

**XYZ(28.0239, 52.8167,  
9.3337)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3FDD13
RGB	63, 221, 19
RGB Percent	25%, 87%, 7%
CMY	0.7529, 0.1333, 0.9254
CMYK	0.71, 0.00, 0.91, 0.13
HSL	107°, 84%, 47%
HSV	107°, 91%, 87%
XYZ	28.0239, 52.8167, 9.3337
YIQ	150.7300, -29.3260, -96.3180

# Conversions

## Conversions Part 2

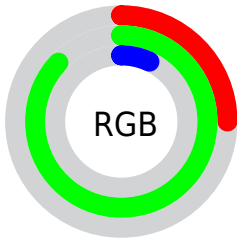
Format	Color
<a href="#">RYB</a>	<a href="#">19, 221, 177</a>
Decimal	<a href="#">4185363</a>
CIELab	<a href="#">77.77, -71.38, 73.48</a>
CIELCh	<a href="#">78, 102.443, 134.169</a>
Yxy	<a href="#">52.8167, 0.3108, 0.5857</a>
Android (android.graphics.Color)	<a href="#">4282375443 (0xFF3FDD13)</a>
YUV	<a href="#">150.7300, -64.9429, -76.9392</a>
Hunter-Lab	<a href="#">72.6751, -58.3509, 43.2579</a>

# Details

The XYZ color **28.0239, 52.8167, 9.3337** is a dark color, and the websafe version is hex **33CC00**. The color can be described as dark washed green. A complement of this color would be **31.4213, 15.0367, 69.6558**, and the grayscale version is **29.5797, 31.1202, 33.8898**.

A 20% lighter version of the original color is **47.4798, 77.3437, 22.3239**, and **13.2755, 26.5509, 4.4252** is the 20% darker color. If you saturate the color by 10%, you get **27.0823, 52.3465, 8.6765**, and if you desaturate by 10%, it is **29.5925, 53.5940, 10.8936**.

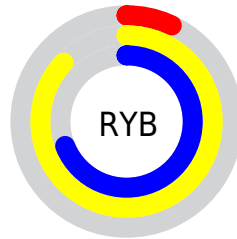
# Distribution



Red (25%)

Green (87%)

Blue (7%)



Red (7%)

Yellow (87%)

Blue (69%)

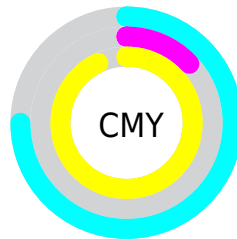


Cyan (71%)

Magenta (0%)

Yellow (91%)

Black (13%)



Cyan (75%)

Magenta (13%)


Yellow (93%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.0239, 52.8167, 9.3337 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 28.0239, 52.8167, 9.3337 by changing the saturation by 10% instead.





 28.0239, 52.8167,  
9.3337


 28.0239, 52.8167,  
9.3337


284.6591,  
397.5815, 196.1569


 18.4842, 37.6565,  
4.8597


 55.9310, 94.3346,  
25.1224


 11.4000, 25.7162,  
2.1079


 75.0291, 121.4610,  
37.2742


 6.4058, 16.6114,  
0.6205


 98.0440, 153.3450,  
52.8223

 3.1364, 9.9578,  
0.0000

 125.3412,  
190.3709, 72.1853

 1.2263, 5.3710,  
0.0000

 157.2859,  
232.9231, 95.7817

 0.1270, 2.4666,  
0.0000

 194.2436,

 0.0000, 0.8598,

281.3860, 124.0301

0.0000

236.5795,  
336.1440, 157.3490

■ 0.0000, 0.0000,  
0.0000

■ 28.0239, 52.8167,  
9.3337

■ 28.0239, 52.8167,  
9.3337

■ 27.0823, 52.3465,  
8.6765

■ 29.5925, 53.5940,  
10.8936

■ 31.7522, 54.6496,  
13.6096

■ 34.5623, 56.0117,  
17.6506

■ 38.0730, 57.7033,  
23.1571

■ 42.3296, 59.7450,  
30.2514

■ 47.3730, 62.1556,  
39.0433

■ 53.2414, 64.9526,  
49.6327

■ 59.9703, 68.1522,  
62.1117

■ 67.5931, 71.7699,  
76.5662

# Harmonies

## Analogous

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



41.4247, 52.8167, 3.2974



28.0239, 52.8167, 9.3337



21.7035, 52.8167, 32.5426

# Triad

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



28.0239, 52.8167, 9.3337



40.4903, 52.8167, 239.8342



97.0531, 52.8167, 34.6847

# Complementary

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



28.0239, 52.8167, 9.3337



31.4213, 15.0367, 69.6558

# 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.



96.6088, 52.8167, 92.7857



28.0239, 52.8167, 9.3337



60.1361, 52.8167, 241.9681

# Square

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



28.0239, 52.8167, 9.3337



27.4961, 52.8167, 172.2641



81.7722, 52.8167, 176.9684



82.8615, 52.8167, 10.0173



# Rectangle

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



28.0239, 52.8167, 9.3337



20.9424, 52.8167, 65.8269



81.7722, 52.8167, 176.9684



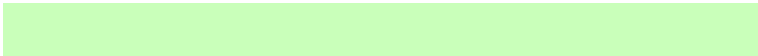
98.7078, 52.8167, 49.9220

# Sweetspot

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



28.0251, 52.8189, 9.3349



68.7645, 87.5087, 59.8046



45.0495, 45.6433, 7.0526



14.1424, 18.4557, 11.7696



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.



28.0251, 52.8189, 9.3349



37.3645, 72.3472, 11.9951



27.3251, 52.3332, 14.9437



13.1503, 14.7422, 13.8780



15.8108, 30.4483, 5.0438



1.0982, 2.0107, 0.3302



# Inverse Universe

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



31.4213, 15.0367, 69.6558



41.7292, 19.4271, 96.1582



37.0413, 18.6344, 38.2721



13.3225, 13.1244, 16.4832



17.6770, 8.2370, 40.3966

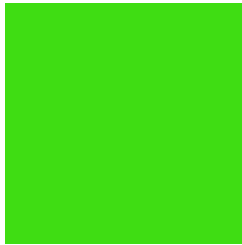


1.2154, 0.5698, 2.6204



# Previews

## White Background



This preview shows how the XYZ color 28.0239, 52.8167, 9.3337 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 28.0239, 52.8167, 9.3337 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

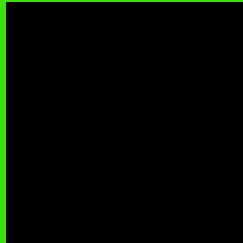
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 28.0239, 52.8167, 9.3337**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.0239, 52.8167, 9.3337.



This preview shows how white text looks on a background with the XYZ color 28.0239, 52.8167,



# 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

28.0239, 52.8167, 9.3337

### Protanopia

46.6551, 51.7087, 7.5218

### Deuteranopia

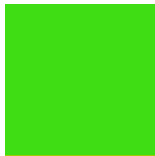
52.6962, 51.6288, 10.2056



## Tritanopia

41.3228, 52.1878, 77.0025

# Trichromacy



## Original Color

28.0239, 52.8167, 9.3337



## Protanomaly

35.6561, 49.7300, 7.9206



## Deuteranomaly

37.7853, 48.7403, 9.3358



## Tritanomaly

33.0532, 51.0020, 36.1193

# Monochromacy



## Original Color

28.0239, 52.8167, 9.3337



## Achromatopsia

29.4150, 30.9469, 33.7012



## Achromatomaly

25.5813, 35.9519, 18.4231

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.0239, 52.8167, 9.3337 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(63, 221, 19)` looks like.

```
.text, #text, p{  
    color:rgb(63, 221, 19)  
}
```

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(63, 221, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 221, 19) }
```

## Border

The CSS property to change the border of an element to XYZ 28.0239, 52.8167, 9.3337 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(63, 221, 19) }
```



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

```
.border{ border-color:rgb(63, 221, 19) }
```

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

Here you see how a box with a 4 pixel `rgb(63, 221, 19)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 221, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 221, 19);  
box-shadow:4px 4px 4px 4px rgb(63, 221,  
19) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.0239, 52.8167, 9.3337 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 221, 19) }
```

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

```
.background{ background-color: rgb(63, 221,  
19) }
```

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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