

# Converting Colors

XYZ(32.2362, 61.9497, 12.9116)

Have a look what the booklet for  
XYZ(32.2362, 61.9497, 12.9116)  
contains.

<b>XYZ(32.2599, 61.9586, 12.9483)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(32.2599, 61.9586,  
12.9483)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2FEE2F
RGB	47, 238, 47
RGB Percent	18%, 93%, 18%
CMY	0.8157, 0.0667, 0.8156
CMYK	0.80, 0.00, 0.80, 0.07
HSL	120°, 85%, 56%
HSV	120°, 80%, 93%
XYZ	32.2599, 61.9586, 12.9483
YIQ	159.1170, -52.5250, -99.8930

# Conversions

## Conversions Part 2

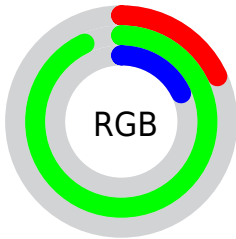
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">47, 238, 238</a>
Decimal	<a href="#">3141167</a>
CIELab	<a href="#">82.89, -77.48, 72.15</a>
CIELCh	<a href="#">83, 105.873, 137.040</a>
Yxy	<a href="#">61.9586, 0.3010, 0.5782</a>
Android (android.graphics.Color)	<a href="#">4281331247 (0xFF2FEE2F)</a>
YUV	<a href="#">159.1170, -55.2737, -98.3266</a>
Hunter-Lab	<a href="#">78.7138, -64.5930, 45.3465</a>

# Details

The XYZ color **32.2599, 61.9586, 12.9483** 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 **51.7097, 26.3837, 83.2522**, and the grayscale version is **33.2722, 35.0049, 38.1204**.

A 20% lighter version of the original color is **47.2727, 77.1362, 26.8652**, and **16.3213, 32.6425, 5.4404** is the 20% darker color. If you saturate the color by 10%, you get **31.0905, 61.3988, 11.0342**, and if you desaturate by 10%, it is **34.2909, 62.9361, 16.2697**.

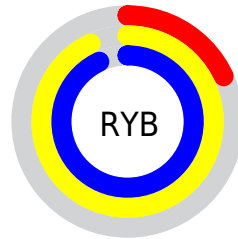
# Distribution



Red (18%)

Green (93%)

Blue (18%)



Red (18%)

Yellow (93%)

Blue (93%)

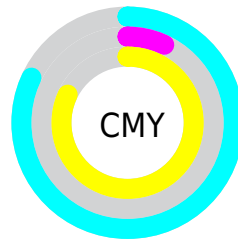


Cyan (80%)

Magenta (0%)

Yellow (80%)

Black (7%)



Cyan (82%)

Magenta (7%)

Yellow (82%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.2599, 61.9586, 12.9483 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 32.2599, 61.9586, 12.9483 by changing the saturation by 10% instead.





 32.2599, 61.9586,  
12.9483


 32.2599, 61.9586,  
12.9483


304.0258,  
431.7801, 221.7822

 21.7166, 44.9992,  
7.2626


 62.5808, 107.6657,  
31.9007


 13.7642, 31.4568,  
3.5460


 83.0890, 137.1822,  
46.0045


 8.0375, 20.9470,  
1.3797


 107.6497,  
171.6533, 63.7515

 4.1709, 13.0852,  
0.1258

 136.6280,  
211.4632, 85.5601

 1.7993, 7.4873,  
0.0000

 170.3894,  
256.9965, 111.8490

 0.5172, 3.7687,  
0.0000

209.2993,

 0.0000, 1.5450,

308.6375, 143.0366

0.0000

253.7230,  
366.7705, 179.5415

■ 0.0000, 0.3201,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 32.2599, 61.9586,  
12.9483

■ 32.2599, 61.9586,  
12.9483

■ 31.0905, 61.3988,  
11.0342


■ 34.2909, 62.9361,  
16.2697


■ 30.5758, 61.1515,  
10.1922


■ 37.3015, 64.3822,  
21.1943


■ 41.3959, 66.3490,  
27.8916

■ 46.6638, 68.8794,  
36.5082

 53.1857, 72.0122,  
47.1758

 61.0348, 75.7825,  
60.0143

 70.2788, 80.2229,  
75.1343

 80.9809, 85.3637,  
92.6391

 89.8658, 89.6315,  
107.1719

# Harmonies

## Analogous

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



46.9440, 61.9586, 4.5252



32.2599, 61.9586, 12.9483



25.6423, 61.9586, 43.0210

# Triad

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



32.2599, 61.9586, 12.9483



49.5867, 61.9586, 278.9930



111.5962, 61.9586, 36.9299

# Complementary

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



32.2599, 61.9586, 12.9483



51.7097, 26.3837, 83.2522

# 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.



112.8392, 61.9586, 99.7535



32.2599, 61.9586, 12.9483



72.7075, 61.9586, 273.0685

# Square

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



32.2599, 61.9586, 12.9483



33.7617, 61.9586, 207.5583



97.1944, 61.9586, 194.4594



94.1414, 61.9586, 10.9550



# Rectangle

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



32.2599, 61.9586, 12.9483



25.1929, 61.9586, 84.0676



97.1944, 61.9586, 194.4594



114.0575, 61.9586, 53.2018

# Sweetspot

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



32.2614, 61.9612, 12.9497



67.6723, 86.8491, 64.1198



66.3502, 79.5346, 14.5441



13.7898, 18.2555, 12.5877



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.



32.2614, 61.9612, 12.9497



35.9436, 71.6082, 12.2206



36.6684, 63.7240, 36.1567



15.5660, 17.6564, 16.7375



17.0576, 34.1150, 5.6861



1.4190, 2.8381, 0.4731



# Inverse Universe

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



51.7097, 26.3837, 83.2522



59.3988, 28.7007, 97.0069



41.1981, 22.1791, 27.8990



16.4543, 16.0314, 19.9486



28.2804, 13.5846, 46.2546

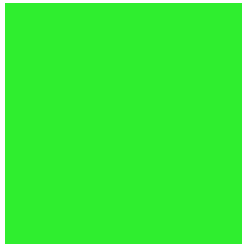


2.3527, 1.1301, 3.8480



# Previews

## White Background



This preview shows how the XYZ color 32.2599, 61.9586, 12.9483 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 32.2599, 61.9586, 12.9483 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 32.2599, 61.9586, 12.9483**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.2599, 61.9586, 12.9483.



This preview shows how white text looks on a background with the XYZ color 32.2599, 61.9586,



# 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

32.2599, 61.9586, 12.9483

### Protanopia

54.8143, 60.6256, 10.6466

### Deuteranopia

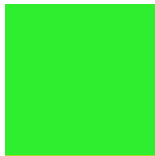
61.7015, 60.3115, 14.5201



## Tritanopia

47.9129, 61.6596, 91.8143

# Trichromacy



## Original Color

32.2599, 61.9586, 12.9483



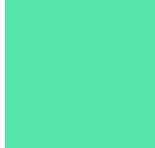
## Protanomaly

40.3173, 57.5723, 11.0854



## Deuteranomaly

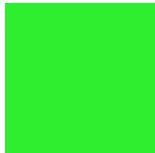
42.5342, 56.0358, 13.2768



## Tritanomaly

38.7454, 60.3204, 47.6311

# Monochromacy



## Original Color

32.2599, 61.9586, 12.9483



## Achromatopsia

32.9542, 34.6704, 37.7561



## Achromatomaly

28.7244, 41.1260, 23.5637

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.2599, 61.9586, 12.9483 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(47, 238, 47)` looks like.

```
.text, #text, p{  
    color:rgb(47, 238, 47)  
}
```

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(47, 238, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 238, 47) }
```

## Border

The CSS property to change the border of an element to XYZ 32.2599, 61.9586, 12.9483 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(47, 238, 47) }
```



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

```
.border{ border-color:rgb(47, 238, 47) }
```

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

Here you see how a box with a 4 pixel rgb(47, 238, 47) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 238, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 238, 47);  
box-shadow:4px 4px 4px 4px rgb(47, 238,  
47) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.2599, 61.9586, 12.9483 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 238, 47) }
```

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

```
.background{ background-color: rgb(47, 238,  
47) }
```

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