

# Converting Colors

XYZ(34.7656, 65.1139, 13.3232)

Have a look what the booklet for  
XYZ(34.7656, 65.1139, 13.3232)  
contains.

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# Color

**XYZ(34.6995, 64.9667,  
13.2958)**

# Conversions

## Conversions Part 1

Format	Color
Hex	45F22E
RGB	69, 242, 46
RGB Percent	27%, 95%, 18%
CMY	0.7294, 0.0510, 0.8196
CMYK	0.71, 0.00, 0.81, 0.05
HSL	113°, 88%, 56%
HSV	113°, 81%, 95%
XYZ	34.6995, 64.9667, 13.2958
YIQ	167.9290, -40.1920, -97.6320

# Conversions

## Conversions Part 2

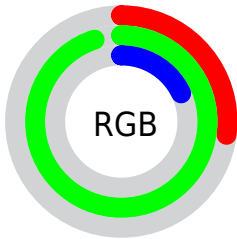
Format	Color
<a href="#">RYB</a>	<a href="#">46, 242, 219</a>
Decimal	<a href="#">4583982</a>
CIELab	<a href="#">84.47, -75.69, 73.99</a>
CIElCh	<a href="#">84, 105.851, 135.650</a>
Yxy	<a href="#">64.9667, 0.3072, 0.5751</a>
Android (android.graphics.Color)	<a href="#">4282774062 (0xFF45F22E)</a>
YUV	<a href="#">167.9290, -60.1110, -86.7607</a>
Hunter-Lab	<a href="#">80.6019, -64.2083, 46.6411</a>

# Details

The XYZ color **34.6995, 64.9667, 13.2958** is a dark color, and the websafe version is hex **66FF33**. The color can be described as dark washed green. A complement of this color would be **46.2229, 23.4282, 86.0937**, and the grayscale version is **37.4863, 39.4385, 42.9486**.

A 20% lighter version of the original color is **49.5048, 78.2868, 26.9697**, and **17.1405, 34.2810, 5.7135** is the 20% darker color. If you saturate the color by 10%, you get **33.0984, 64.1837, 11.3937**, and if you desaturate by 10%, it is **37.1173, 66.1436, 16.6400**.

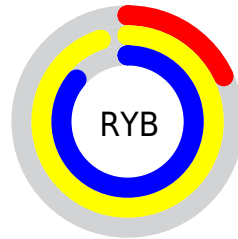
# Distribution



Red (27%)

Green (95%)

Blue (18%)



Red (18%)

Yellow (95%)

Blue (86%)

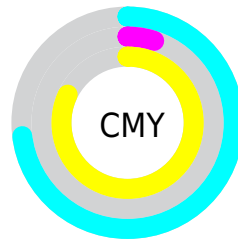


Cyan (71%)

Magenta (0%)

Yellow (81%)

Black (5%)



Cyan (73%)

Magenta (5%)


Yellow (82%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.6995, 64.9667, 13.2958 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 34.6995, 64.9667, 13.2958 by changing the saturation by 10% instead.





 34.6995, 64.9667,  
13.2958


 34.6995, 64.9667,  
13.2958


314.7713,  
442.6723, 224.0788


 23.5969, 47.4341,  
7.4994


 66.3571, 112.0020,  
32.5331

 15.1580, 33.3789,  
3.6932


 87.6428, 142.2734,  
46.8112


 9.0174, 22.4169,  
1.4586

 113.0536,  
177.5599, 64.7535

 4.8097, 14.1635,  
0.1868

 142.9548,  
218.2459, 86.7787

 2.1697, 8.2345,  
0.0000

 177.7118,  
264.7157, 113.3053

 0.7267, 4.2454,  
0.0000

217.6900,

 0.0000, 1.8117,

317.3538, 144.7518

0.0000

263.2547,  
376.5445, 181.5368

■ 0.0000, 0.4945,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 34.6995, 64.9667,  
13.2958

■ 34.6995, 64.9667,  
13.2958

■ 33.0984, 64.1837,  
11.3937


■ 37.1173, 66.1436,  
16.6400


■ 32.2430, 63.7592,  
10.6074

■ 40.4393, 67.7491,  
21.6322


■ 44.7463, 69.8230,  
28.4495


■ 50.1088, 72.3983,  
37.2453

 56.5909, 75.5052,  
48.1566

 64.2515, 79.1712,  
61.3083

 73.1453, 83.4221,  
76.8157

 83.3236, 88.2820,  
94.7861

 91.0434, 91.9869,  
107.5645

# Harmonies

## Analogous

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



50.3220, 64.9667, 4.9314



34.6995, 64.9667, 13.2958



27.4493, 64.9667, 43.2186

# Triad

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



34.6995, 64.9667, 13.2958



51.1922, 64.9667, 285.4272



116.4189, 64.9667, 41.2056

# Complementary

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



34.6995, 64.9667, 13.2958



46.2229, 23.4282, 86.0937

# 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.



116.8249, 64.9667, 107.9930



34.6995, 64.9667, 13.2958



74.7866, 64.9667, 283.5026

# Square

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



34.6995, 64.9667, 13.2958



35.1963, 64.9667, 209.8929



100.1174, 64.9667, 205.6286



99.1187, 64.9667, 12.6251



# Rectangle

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



34.6995, 64.9667, 13.2958



26.7603, 64.9667, 84.2874



100.1174, 64.9667, 205.6286



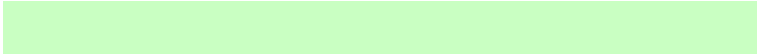
118.6592, 64.9667, 58.7239

# Sweetspot

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



34.7010, 64.9694, 13.2973



69.5568, 87.8206, 64.2063



61.6358, 68.1215, 12.4860



14.2270, 18.4809, 12.6078



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.



34.7010, 64.9694, 13.2973



36.5528, 71.9239, 12.1758



36.1432, 65.3930, 27.8177



15.7381, 17.7451, 16.7454



17.3782, 34.2804, 5.7008



1.5014, 2.8805, 0.4769



# Inverse Universe

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



46.2229, 23.4282, 86.0937



49.4928, 23.5526, 96.5453



44.8658, 23.7404, 40.3173



16.2611, 15.9318, 19.9397



23.5232, 11.1320, 46.0368

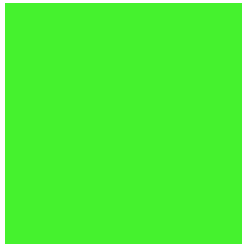


2.0081, 0.9525, 3.8322



# Previews

## White Background



This preview shows how the XYZ color 34.6995, 64.9667, 13.2958 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 34.6995, 64.9667, 13.2958 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

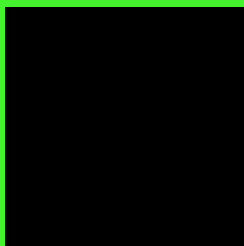
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 34.6995, 64.9667, 13.2958**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.6995, 64.9667, 13.2958.



This preview shows how white text looks on a background with the XYZ color 34.6995, 64.9667,



# 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

34.6995, 64.9667, 13.2958

### Protanopia

57.3953, 63.3967, 10.9620

### Deuteranopia

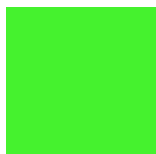
64.2925, 63.5279, 21.4439



## Tritanopia

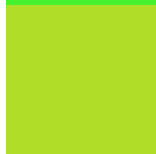
50.8621, 64.3040, 95.3192

# Trichromacy



## Original Color

34.6995, 64.9667, 13.2958



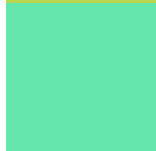
## Protanomaly

43.9187, 60.9801, 11.4631



## Deuteranomaly

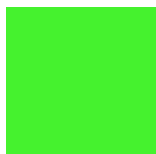
46.3169, 59.7749, 17.0792



## Tritanomaly

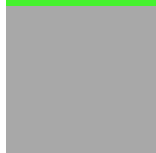
41.3891, 62.8971, 48.9886

# Monochromacy



## Original Color

34.6995, 64.9667, 13.2958



## Achromatopsia

37.2190, 39.1572, 42.6422



## Achromatomaly

32.6689, 45.3910, 26.1083

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.6995, 64.9667, 13.2958 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(69, 242, 46)` looks like.

```
.text, #text, p{  
    color:rgb(69, 242, 46)  
}
```

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(69, 242, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 242, 46) }
```

## Border

The CSS property to change the border of an element to XYZ 34.6995, 64.9667, 13.2958 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(69, 242, 46) }
```



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

```
.border{ border-color:rgb(69, 242, 46) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 242, 46)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 242, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 242, 46);  
box-shadow:4px 4px 4px 4px rgb(69, 242,  
46) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.6995, 64.9667, 13.2958 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 242, 46) }
```

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

```
.background{ background-color: rgb(69, 242,  
46) }
```

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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