

# Converting Colors

XYZ(32.8176, 64.4891, 11.1480)

Have a look what the booklet for  
XYZ(32.8176, 64.4891, 11.1480)  
contains.

<b>XYZ(32.8230, 64.4902, 11.1334)</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(32.8230, 64.4902,  
11.1334)**

# Conversions

## Conversions Part 1

Format	Color
Hex	23F30E
RGB	35, 243, 14
RGB Percent	14%, 95%, 5%
CMY	0.8627, 0.0470, 0.9450
CMYK	0.86, 0.00, 0.94, 0.05
HSL	115°, 91%, 50%
HSV	115°, 94%, 95%
XYZ	32.8230, 64.4902, 11.1334
YIQ	154.7020, -50.4590, -115.3150

# Conversions

## Conversions Part 2

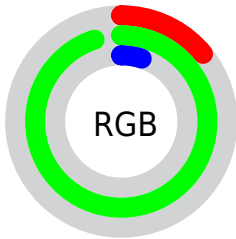
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	14, 243, 222
Decimal	2355982
CIE <sub>Lab</sub>	84.22, -81.19, 79.27
CIE <sub>LCh</sub>	84, 113.472, 135.686
Yxy	64.4902, 0.3027, 0.5947
Android (android.graphics.Color)	4280546062 (0xFF23F30E)
YUV	154.7020, -69.3661, -104.9787
Hunter-Lab	80.3058, -67.5777, 47.9942

# Details

The XYZ color **32.8230, 64.4902, 11.1334** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark saturated green. A complement of this color would be **46.4701, 22.3210, 86.6566**, and the grayscale version is **31.3396, 32.9717, 35.9062**.

A 20% lighter version of the original color is **46.0480, 76.5954, 22.7133**, and **17.3490, 34.6979, 5.7830** is the 20% darker color. If you saturate the color by 10%, you get **32.3884, 64.2773, 10.6997**, and if you desaturate by 10%, it is **34.0987, 65.1179, 12.6336**.

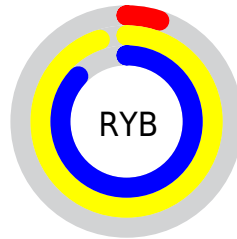
# Distribution



Red (14%)

Green (95%)

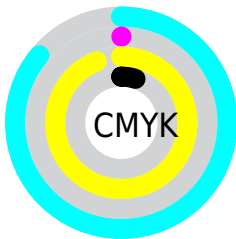
Blue (5%)



Red (5%)

Yellow (95%)

Blue (87%)

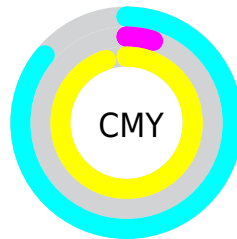


Cyan (86%)

Magenta (0%)

Yellow (94%)

Black (5%)



Cyan (86%)

Magenta (5%)


Yellow (95%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.8230, 64.4902, 11.1334 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 32.8230, 64.4902, 11.1334 by changing the saturation by 10% instead.





 32.8230, 64.4902,  
11.1334


 32.8230, 64.4902,  
11.1334


306.5305,  
440.9577, 209.3507

 22.1495, 47.0478,  
6.0413


 63.4556, 111.3166,  
28.5470

 14.0840, 33.0735,  
2.8010


 84.1454, 141.4694,  
41.7056


 8.2612, 22.1827,  
0.9940

 108.9047,  
176.6278, 58.3901


 4.3157, 13.9912,  
0.0000

 138.0988,  
217.1762, 79.0191

 1.8823, 8.1146,  
0.0000

 172.0931,  
263.4990, 104.0112

 0.5665, 4.1683,  
0.0000

 211.2529,

 0.0000, 1.7682,

315.9806, 133.7847

0.0000

255.9436,  
375.0054, 168.7584

■ 0.0000, 0.4672,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 32.8230, 64.4902,  
11.1334

■ 32.8230, 64.4902,  
11.1334

■ 32.3884, 64.2773,  
10.6997


■ 34.0987, 65.1179,  
12.6336


■ 36.1757, 66.1272,  
15.5058


■ 39.1614, 67.5705,  
19.9803


■ 43.1452, 69.4896,  
26.2445

 48.2057, 71.9219,  
34.4599

 54.4138, 74.9005,  
44.7699

 61.8340, 78.4560,  
57.3046

 70.5263, 82.6167,  
72.1835

 80.5464, 87.4090,  
89.5174

# Harmonies

## Analogous

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



49.1420, 64.4902, 3.4927



32.8230, 64.4902, 11.1334



25.3943, 64.4902, 41.2696

# Triad

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



32.8230, 64.4902, 11.1334



50.1126, 64.4902, 307.6431



120.5522, 64.4902, 39.0649

# Complementary

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



32.8230, 64.4902, 11.1334



46.4701, 22.3210, 86.6566

# 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.



121.0228, 64.4902, 110.2738



32.8230, 64.4902, 11.1334



75.3050, 64.4902, 305.3530

# Square

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



32.8230, 64.4902, 11.1334



33.3653, 64.4902, 222.9965



102.7610, 64.4902, 217.9735



101.6110, 64.4902, 10.4612



# Rectangle

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



32.8230, 64.4902, 11.1334



24.6995, 64.4902, 84.8361



102.7610, 64.4902, 217.9735



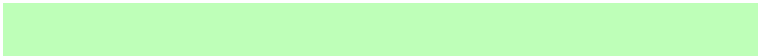
123.0197, 64.4902, 57.3852

# Sweetspot

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



32.8245, 64.4929, 11.1349



65.6399, 85.9290, 58.2542



62.6643, 70.3297, 10.6887



13.2961, 18.0313, 11.1979



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.



32.8245, 64.4929, 11.1349



36.1215, 71.7064, 11.9369



34.8152, 65.2301, 24.2878



16.4229, 18.5445, 17.5114



17.8226, 35.3007, 5.8744



1.6133, 3.1267, 0.5185



# Inverse Universe

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



46.4701, 22.3210, 86.6566



51.2137, 24.3165, 96.6020



42.7407, 21.6182, 31.3749



17.0552, 16.6866, 20.8645



25.2628, 11.9978, 47.5223

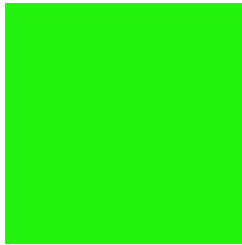


2.2632, 1.0766, 4.1788



# Previews

## White Background



This preview shows how the XYZ color 32.8230, 64.4902, 11.1334 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

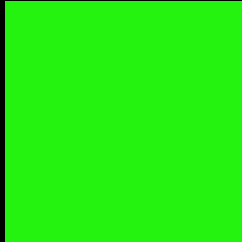
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 32.8230, 64.4902, 11.1334 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 32.8230, 64.4902, 11.1334**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.8230, 64.4902, 11.1334.



This preview shows how white text looks on a background with the XYZ color 32.8230, 64.4902,



# 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

32.8230, 64.4902, 11.1334

### Protanopia

56.8168, 62.7739, 9.1220

### Deuteranopia

63.7290, 62.9331, 19.6149



## Tritanopia

49.4693, 63.9885, 95.3317

# Trichromacy



## Original Color

32.8230, 64.4902, 11.1334



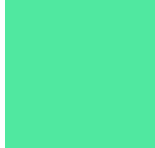
## Protanomaly

40.7841, 59.4052, 9.4604



## Deuteranomaly

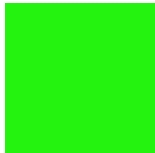
42.9630, 58.1082, 14.1059



## Tritanomaly

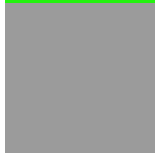
38.5100, 61.9568, 43.1869

# Monochromacy



## Original Color

32.8230, 64.4902, 11.1334



## Achromatopsia

31.1553, 32.7778, 35.6950



## Achromatomaly

26.8246, 39.9196, 19.3882

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.8230, 64.4902, 11.1334 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(35, 243, 14)` looks like.

```
.text, #text, p{  
    color:rgb(35, 243, 14)  
}
```

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(35, 243, 14) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(35, 243, 14) }
```

## Border

The CSS property to change the border of an element to XYZ 32.8230, 64.4902, 11.1334 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(35, 243, 14) }
```



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

```
.border{ border-color:rgb(35, 243, 14) }
```

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

Here you see how a box with a 4 pixel rgb(35, 243, 14) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(35, 243, 14); -webkit-box-  
shadow:4px 4px 4px 4px rgb(35, 243, 14);  
box-shadow:4px 4px 4px 4px rgb(35, 243,  
14) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.8230, 64.4902, 11.1334 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(35, 243, 14) }
```

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

```
.background{ background-color: rgb(35, 243,  
14) }
```

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