

# Converting Colors

XYZ(31.4345, 59.7622, 14.4019)

Have a look what the booklet for  
XYZ(31.4345, 59.7622, 14.4019)  
contains.

<b>XYZ(31.4646, 59.7978, 14.4412)</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(31.4646, 59.7978,  
14.4412)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2FEA3E
RGB	47, 234, 62
RGB Percent	18%, 92%, 24%
CMY	0.8157, 0.0823, 0.7568
CMYK	0.80, 0.00, 0.74, 0.08
HSL	125°, 82%, 55%
HSV	125°, 80%, 92%
XYZ	31.4646, 59.7978, 14.4412
YIQ	158.4790, -56.2400, -93.1360

# Conversions

## Conversions Part 2

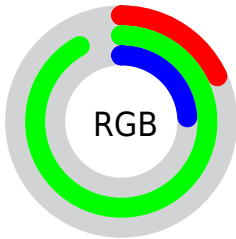
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">47, 220, 234</a>
Decimal	<a href="#">3140158</a>
CIELab	<a href="#">81.73, -75.36, 66.50</a>
CIELCh	<a href="#">82, 100.505, 138.572</a>
Yxy	<a href="#">59.7978, 0.2977, 0.5657</a>
Android (android.graphics.Color)	<a href="#">4281330238 (0xFF2FEA3E)</a>
YUV	<a href="#">158.4790, -47.5641, -97.7671</a>
Hunter-Lab	<a href="#">77.3290, -62.6955, 43.0579</a>

# Details

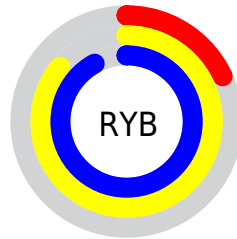
The XYZ color **31.4646, 59.7978, 14.4412** is a dark color, and the websafe version is hex **33FF66**. The color can be described as dark washed green. A complement of this color would be **47.7355, 24.6406, 69.2565**, and the grayscale version is **32.9466, 34.6624, 37.7473**.

A 20% lighter version of the original color is **47.7543, 77.3117, 30.1750**, and **15.7221, 31.4443, 5.2407** is the 20% darker color. If you saturate the color by 10%, you get **30.1826, 59.1939, 11.8857**, and if you desaturate by 10%, it is **33.5607, 60.7978, 18.2575**.

# Distribution



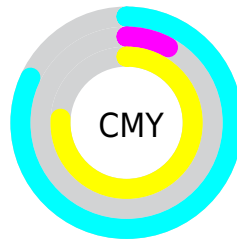
- Red (18%)
- Green (92%)
- Blue (24%)



- Red (18%)
- Yellow (86%)
- Blue (92%)



- Cyan (80%)
- Magenta (0%)
- Yellow (74%)
- Black (8%)




- Cyan (82%)
- Magenta (8%)
- Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.4646, 59.7978, 14.4412 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 31.4646, 59.7978, 14.4412 by changing the saturation by 10% instead.





 31.4646, 59.7978,  
14.4412


 31.4646, 59.7978,  
14.4412


300.4619,  
423.8521, 231.4816

 21.1064, 43.2557,  
8.2859


 61.3417, 104.5363,  
34.5982

 13.3147, 30.0858,  
4.1881


 81.5913, 133.5015,  
49.4369


 7.7241, 19.9037,  
1.7291


 105.8688,  
167.3764, 68.0073

 3.9692, 12.3251,  
0.3805

 134.5396,  
206.5456, 90.7278

 1.6847, 6.9655,  
0.0000

 167.9689,  
251.3933, 118.0169

 0.4467, 3.4405,  
0.0000

206.5221,

 0.0000, 1.3658,

302.3041, 150.2932

0.0000

250.5647,  
359.6622, 187.9753

■ 0.0000, 0.1913,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 31.4646, 59.7978,  
14.4412

■ 31.4646, 59.7978,  
14.4412

■ 30.1826, 59.1939,  
11.8857

■ 33.5607, 60.7978,  
18.2575


■ 29.5437, 58.8962,  
10.4254


■ 36.5722, 62.2382,  
23.4642


■ 29.5397, 58.8943,  
10.4170


■ 40.5903, 64.1652,  
30.1793


■ 45.6939, 66.6171,  
38.5073

 51.9541, 69.6287,  
48.5433

 59.4359, 73.2316,  
60.3749

 68.1994, 77.4550,  
74.0839

 78.3009, 82.3263,  
89.7469

 88.7140, 87.3281,  
106.7880

# Harmonies

## Analogous

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



44.8387, 59.7978, 5.3439



31.4646, 59.7978, 14.4412



25.5590, 59.7978, 44.6455

# Triad

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



31.4646, 59.7978, 14.4412



49.1505, 59.7978, 259.0893



104.7787, 59.7978, 34.6050

# Complementary

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



31.4646, 59.7978, 14.4412



47.7355, 24.6406, 69.2565

# Split Complementary

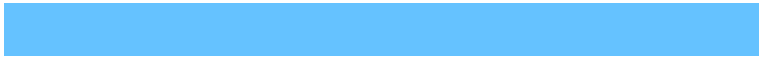
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



106.7636, 59.7978, 91.0304



31.4646, 59.7978, 14.4412



70.8026, 59.7978, 249.7679

# Square

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



31.4646, 59.7978, 14.4412



33.9437, 59.7978, 197.3609



93.1209, 59.7978, 176.6313



88.2276, 59.7978, 10.9969



# Rectangle

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



31.4646, 59.7978, 14.4412



25.3529, 59.7978, 84.0653



93.1209, 59.7978, 176.6313



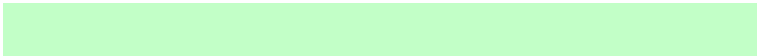
107.3006, 59.7978, 49.2419

# Sweetspot

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



31.4660, 59.8003, 14.4425



68.2321, 87.0730, 67.0677



59.9198, 74.5099, 13.9131



13.9195, 18.3074, 13.2706



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.



31.4660, 59.8003, 14.4425



36.1200, 71.6788, 13.1496



36.3436, 61.7513, 40.1273



14.9174, 16.8818, 16.2478



16.6169, 33.1012, 5.9479



1.3219, 2.6061, 0.5567



# Inverse Universe

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



47.7355, 24.6406, 69.2565



56.3976, 27.5002, 81.2026



38.8482, 21.0856, 22.4567



15.6596, 15.2917, 18.7589



25.9987, 12.6022, 37.3899

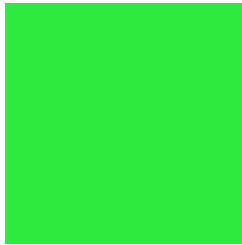


2.0570, 0.9958, 3.0176



# Previews

## White Background



This preview shows how the XYZ color 31.4646, 59.7978, 14.4412 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 31.4646, 59.7978, 14.4412 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

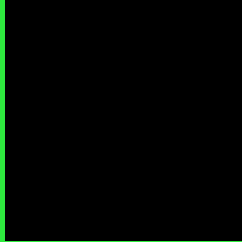
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 31.4646, 59.7978, 14.4412**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.4646, 59.7978, 14.4412.



This preview shows how white text looks on a background with the XYZ color 31.4646, 59.7978,



# 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

31.4646, 59.7978, 14.4412

### Protanopia

53.1504, 58.6762, 12.0143

### Deuteranopia

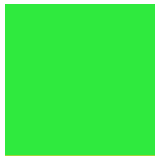
59.4664, 58.1501, 15.4870



## Tritanopia

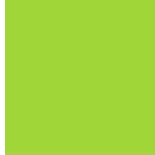
46.0374, 59.2022, 88.3576

# Trichromacy



## Original Color

31.4646, 59.7978, 14.4412



## Protanomaly

39.4830, 55.9656, 12.5924



## Deuteranomaly

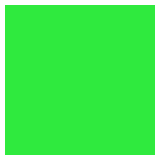
41.4199, 54.3368, 14.6083



## Tritanomaly

37.8546, 58.2133, 48.7763

# Monochromacy



## Original Color

31.4646, 59.7978, 14.4412



## Achromatopsia

32.4990, 34.1914, 37.2345



## Achromatomaly

28.6053, 40.3994, 25.0291

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.4646, 59.7978, 14.4412 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, 234, 62)` looks like.

```
.text, #text, p{  
    color:rgb(47, 234, 62)  
}
```

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, 234, 62) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 234, 62) }
```

## Border

The CSS property to change the border of an element to XYZ 31.4646, 59.7978, 14.4412 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, 234, 62) }
```



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

```
.border{ border-color:rgb(47, 234, 62) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 234, 62)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 234, 62); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 234, 62);  
box-shadow:4px 4px 4px 4px rgb(47, 234,  
62) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.4646, 59.7978, 14.4412 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 234, 62) }
```

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

```
.background{ background-color: rgb(47, 234,  
62) }
```

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