

Converting Colors

XYZ(31.3265, 59.9851, 12.9880)

Have a look what the booklet for
XYZ(31.3265, 59.9851, 12.9880)
contains.

XYZ(31.4563, 60.2513, 12.9894)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(31.4563, 60.2513,
12.9894)**

Conversions

Conversions Part 1

Format	Color
Hex	2FEB32
RGB	47, 235, 50
RGB Percent	18%, 92%, 20%
CMY	0.8157, 0.0784, 0.8039
CMYK	0.80, 0.00, 0.79, 0.08
HSL	121°, 82%, 55%
HSV	121°, 80%, 92%
XYZ	31.4563, 60.2513, 12.9894
YIQ	157.6980, -52.6630, -97.3910

Conversions

Conversions Part 2

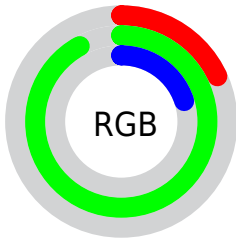
Format	Color
RYB	47, 232, 235
Decimal	3140402
CIELab	81.97, -76.45, 70.47
CIELCh	82, 103.972, 137.332
Yxy	60.2513, 0.3005, 0.5755
Android (android.graphics.Color)	4281330482 (0xFF2FEB32)
YUV	157.6980, -53.0951, -97.0821
Hunter-Lab	77.6217, -63.5006, 44.4135

Details

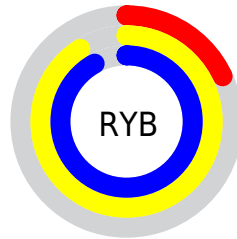
The XYZ color **31.4563, 60.2513, 12.9894** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **49.8435, 25.5217, 78.6389**, and the grayscale version is **32.6139, 34.3123, 37.3661**.

A 20% lighter version of the original color is **47.3816, 77.1797, 27.4388**, and **15.7221, 31.4443, 5.2407** is the 20% darker color. If you saturate the color by 10%, you get **30.2709, 59.6858, 10.9550**, and if you desaturate by 10%, it is **33.4785, 61.2227, 16.3791**.

Distribution



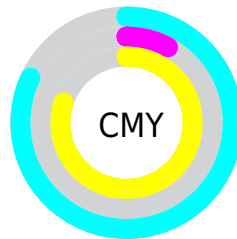
- Red (18%)
- Green (92%)
- Blue (20%)



- Red (18%)
- Yellow (91%)
- Blue (92%)



- Cyan (80%)
- Magenta (0%)
- Yellow (79%)
- Black (8%)



- Cyan (82%)
- Magenta (8%)
- Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.4563, 60.2513, 12.9894 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 31.4563, 60.2513, 12.9894 by changing the saturation by 10% instead.

31.4563, 60.2513,
12.9894

31.4563, 60.2513,
12.9894

300.4245,
425.5234, 222.0552

21.1001, 43.6212,
7.2906

61.3287, 105.1941,
31.9756

13.3101, 30.3728,
3.5633

81.5756, 134.2757,
46.1002

7.7209, 20.1218,
1.3890

105.8502,
168.2765, 63.8704

3.9672, 12.4836,
0.1331

134.5177,
207.5809, 85.7048

1.6836, 7.0739,
0.0000

167.9435,
252.5735, 112.0219

0.4460, 3.5084,
0.0000

206.4930,

0.0000, 1.4025,

303.6385, 143.2403

0.0000

250.5316,
361.1603, 179.7786

■ 0.0000, 0.2186,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 31.4563, 60.2513,
12.9894

■ 31.4563, 60.2513,
12.9894

■ 30.2709, 59.6858,
10.9550


■ 33.4785, 61.2227,
16.3791


■ 29.7302, 59.4274,
10.0117


■ 36.4488, 62.6481,
21.2997

■ 40.4658, 64.5769,
27.9049

■ 45.6147, 67.0501,
36.3285

 51.9720, 70.1047,
46.6909

 59.6076, 73.7741,
59.1024

 68.5858, 78.0896,
73.6647

 78.9670, 83.0800,
90.4730

 88.9996, 87.8991,
106.8832

Harmonies

Analogous

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



45.5677, 60.2513, 4.6029



31.4563, 60.2513, 12.9894



25.1182, 60.2513, 42.4629

Triad

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



31.4563, 60.2513, 12.9894



48.4832, 60.2513, 268.9736



107.8769, 60.2513, 35.7280

Complementary

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



31.4563, 60.2513, 12.9894



49.8435, 25.5217, 78.6389

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.



109.2417, 60.2513, 95.9153



31.4563, 60.2513, 12.9894



70.8149, 60.2513, 262.4895

Square

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



31.4563, 60.2513, 12.9894



33.1174, 60.2513, 201.0684



94.3384, 60.2513, 186.7141



90.9835, 60.2513, 10.7621

Rectangle

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



31.4563, 60.2513, 12.9894



24.7256, 60.2513, 82.3097



94.3384, 60.2513, 186.7141



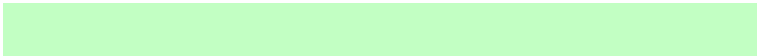
110.2967, 60.2513, 51.3260

Sweetspot

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



31.4577, 60.2538, 12.9908



67.7823, 86.8931, 64.6988



64.4850, 77.2873, 14.2084



13.8152, 18.2657, 12.7215



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.



31.4577, 60.2538, 12.9908



35.9678, 71.6179, 12.3477



35.6896, 61.9466, 35.2758



14.8781, 16.8661, 16.0410



16.5499, 33.0744, 5.5950



1.3030, 2.5985, 0.4575

Inverse Universe

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



49.8435, 25.5217, 78.6389



58.7760, 28.4516, 93.7275



40.0867, 21.6190, 27.2600



15.7038, 15.3094, 18.9916



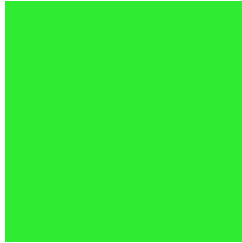
27.1189, 13.0502, 43.2889



2.1328, 1.0261, 3.4169

Previews

White Background



This preview shows how the XYZ color 31.4563, 60.2513, 12.9894 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 31.4563, 60.2513, 12.9894 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

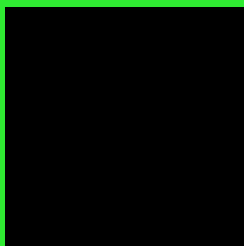
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 31.4563, 60.2513, 12.9894

Background



This preview shows how black text looks on a background with the XYZ color 31.4563, 60.2513, 12.9894.

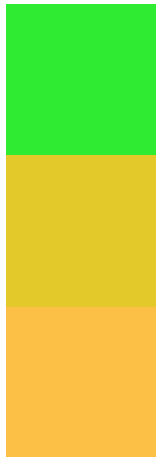


This preview shows how white text looks on a background with the XYZ color 31.4563, 60.2513,

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

31.4563, 60.2513, 12.9894

Protanopia

53.2170, 58.7391, 10.7234

Deuteranopia

60.1000, 58.8369, 13.9834



Tritanopia

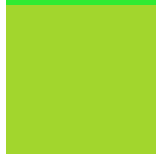
46.5614, 59.8416, 89.2173

Trichromacy



Original Color

31.4563, 60.2513, 12.9894



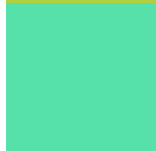
Protanomaly

39.4205, 55.9640, 11.2071



Deuteranomaly

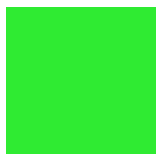
41.5845, 54.8177, 13.0918



Tritanomaly

37.8330, 58.6463, 46.8620

Monochromacy



Original Color

31.4563, 60.2513, 12.9894



Achromatopsia

32.4990, 34.1914, 37.2345



Achromatomaly

28.3599, 40.3013, 23.7370

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.4563, 60.2513, 12.9894 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, 235, 50)` looks like.

```
.text, #text, p{  
    color:rgb(47, 235, 50)  
}
```

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, 235, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 235, 50) }
```

Border

The CSS property to change the border of an element to XYZ 31.4563, 60.2513, 12.9894 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, 235, 50) }
```


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

```
.border{ border-color:rgb(47, 235, 50) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 235, 50)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 235, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 235, 50);  
box-shadow:4px 4px 4px 4px rgb(47, 235,  
50) }
```

Background

The CSS property to change the background color of an element to XYZ 31.4563, 60.2513, 12.9894 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 235, 50) }
```

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

```
.background{ background-color: rgb(47, 235,  
50) }
```

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