

# Converting Colors

XYZ(36.1908, 71.2518, 12.7878)

Have a look what the booklet for  
XYZ(36.1908, 71.2518, 12.7878)  
contains.

<b>XYZ(36.1824, 71.2451, 12.7644)</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(36.1824, 71.2451,  
12.7644)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1FFE19
RGB	31, 254, 25
RGB Percent	12%, 100%, 10%
CMY	0.8784, 0.0039, 0.9019
CMYK	0.88, 0.00, 0.90, 0.00
HSL	118°, 99%, 55%
HSV	118°, 90%, 100%
XYZ	36.1824, 71.2451, 12.7644
YIQ	161.2170, -59.3990, -118.4950

# Conversions

## Conversions Part 2

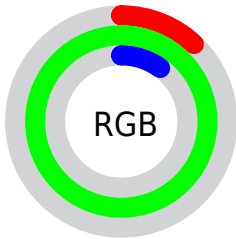
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	25, 254, 248
Decimal	2096665
CIE Lab	87.60, -84.20, 80.74
CIE LCh	88, 116.655, 136.199
Yxy	71.2451, 0.3010, 0.5928
Android (android.graphics.Color)	4280286745 (0xFF1FFE19)
YUV	161.2170, -67.1550, -114.2003
Hunter-Lab	84.4068, -71.1949, 50.1187

# Details

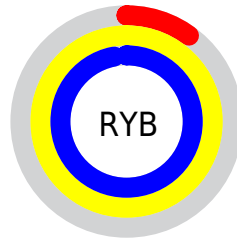
The XYZ color **36.1824, 71.2451, 12.7644** is a dark color, and the websafe version is hex **33FF00**. The color can be described as dark washed green. A complement of this color would be **56.9574, 27.8127, 96.1361**, and the grayscale version is **34.3027, 36.0891, 39.3010**.

A 20% lighter version of the original color is **46.6163, 76.8565, 24.1822**, and **19.5151, 39.0302, 6.5050** is the 20% darker color. If you saturate the color by 10%, you get **35.5263, 70.9293, 11.8183**, and if you desaturate by 10%, it is **37.6444, 71.9536, 14.9698**.

# Distribution



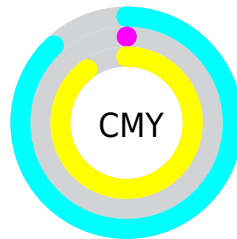
- Red (12%)
- Green (100%)
- Blue (10%)



- Red (10%)
- Yellow (100%)
- Blue (97%)



- Cyan (88%)
- Magenta (0%)
- Yellow (90%)
- Black (0%)




- Cyan (88%)
- Magenta (0%)
- Yellow (90%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.1824, 71.2451, 12.7644 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 36.1824, 71.2451, 12.7644 by changing the saturation by 10% instead.





 36.1824, 71.2451,  
12.7644


 36.1824, 71.2451,  
12.7644


321.1744,  
464.9098, 220.5567


 24.7459, 52.5422,  
7.1377


 68.6355, 120.9827,  
31.5648

 16.0155, 37.4375,  
3.4686


 90.3828, 152.7861,  
45.5756


 9.6261, 25.5464,  
1.3386


 116.2978,  
189.7253, 63.2182

 5.2121, 16.4846,  
0.0931

 146.7457,  
232.1845, 84.9111

 2.4083, 9.8677,  
0.0000

 182.0920,  
280.5481, 111.0729

 0.8492, 5.3113,  
0.0000

 222.7020,

 0.0000, 2.4311,

335.2007, 142.1220

0.0000

268.9410,  
396.5264, 178.4771

■ 0.0000, 0.8418,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 36.1824, 71.2451,  
12.7644

■ 36.1824, 71.2451,  
12.7644

■ 35.5263, 70.9293,  
11.8183

■ 37.6444, 71.9536,  
14.9698

■ 40.0901, 73.1320,  
18.8078

■ 43.6538, 74.8466,  
24.5149

■ 48.4476, 77.1508,  
32.2879

■ 54.5701, 80.0918,  
42.2985

■ 62.1097, 83.7119,  
54.7008

■ 71.1475, 88.0499,  
69.6350

■ 81.7582, 93.1414,  
87.2307

94.0118, 99.0200,  
107.6085

# Harmonies

## Analogous

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



53.9646, 71.2451, 4.0213



36.1824, 71.2451, 12.7644



28.1489, 71.2451, 46.6729

# Triad

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



36.1824, 71.2451, 12.7644



55.8293, 71.2451, 338.5620



132.5300, 71.2451, 42.4306

# Complementary

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



36.1824, 71.2451, 12.7644



56.9574, 27.8127, 96.1361

# 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.



133.4312, 71.2451, 119.7714



36.1824, 71.2451, 12.7644



83.6257, 71.2451, 334.1854

# Square

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



36.1824, 71.2451, 12.7644



37.2262, 71.2451, 247.0924



113.6928, 71.2451, 237.4850



111.4892, 71.2451, 11.4612



# Rectangle

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



36.1824, 71.2451, 12.7644



27.4739, 71.2451, 95.1690



113.6928, 71.2451, 237.4850



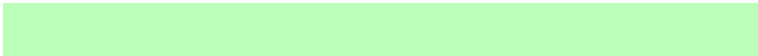
135.3608, 71.2451, 62.2931

# Sweetspot

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



36.1841, 71.2481, 12.7660



65.3653, 85.7564, 59.6456



74.1193, 87.2798, 13.8610



13.3646, 18.0547, 11.7332



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.



36.1841, 71.2481, 12.7660



35.8434, 71.5630, 11.9239



40.0012, 72.7560, 33.7216



17.8154, 20.1908, 19.1026



18.7479, 37.4030, 6.2314



1.8402, 3.6494, 0.6074



# Inverse Universe

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



56.9574, 27.8127, 96.1361



56.8814, 27.2383, 96.8673



46.5006, 23.8789, 29.8218



18.7430, 18.2748, 22.7895



29.7429, 14.2435, 50.6162

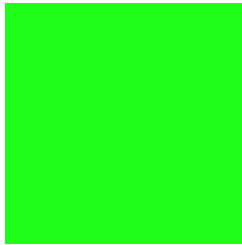


2.9102, 1.3942, 4.9290



# Previews

## White Background



This preview shows how the XYZ color 36.1824, 71.2451, 12.7644 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

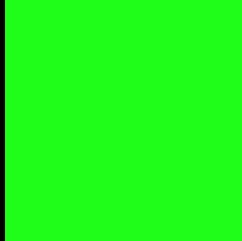
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.1824, 71.2451, 12.7644 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

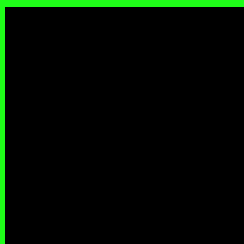
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 36.1824, 71.2451, 12.7644**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.1824, 71.2451, 12.7644.



This preview shows how white text looks on a background with the XYZ color 36.1824, 71.2451,



# 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

36.1824, 71.2451, 12.7644

### Protanopia

62.7276, 69.5553, 10.1194

### Deuteranopia

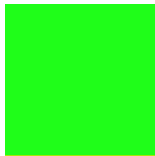
69.0943, 69.2763, 34.9293



## Tritanopia

54.6010, 70.5904, 105.3553

# Trichromacy



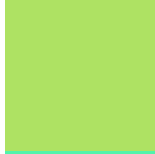
## Original Color

36.1824, 71.2451, 12.7644



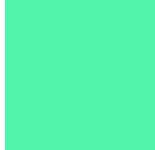
## Protanomaly

44.5616, 65.3870, 10.5308



## Deuteranomaly

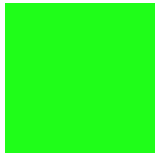
46.9040, 64.2922, 21.7419



## Tritanomaly

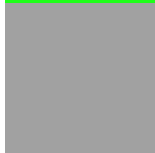
42.8810, 68.8353, 49.5546

# Monochromacy



## Original Color

36.1824, 71.2451, 12.7644



## Achromatopsia

33.8758, 35.6400, 38.8120



## Achromatomaly

29.3792, 43.7775, 22.2307

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.1824, 71.2451, 12.7644 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(31, 254, 25)` looks like.

```
.text, #text, p{  
    color:rgb(31, 254, 25)  
}
```

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(31, 254, 25) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 254, 25) }
```

## Border

The CSS property to change the border of an element to XYZ 36.1824, 71.2451, 12.7644 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(31, 254, 25) }
```



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

```
.border{ border-color:rgb(31, 254, 25) }
```

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

Here you see how a box with a 4 pixel `rgb(31, 254, 25)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 254, 25); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 254, 25);  
box-shadow:4px 4px 4px 4px rgb(31, 254,  
25) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.1824, 71.2451, 12.7644 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 254, 25) }
```

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

```
.background{ background-color: rgb(31, 254,  
25) }
```

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