

# Converting Colors

XYZ(35.7698, 71.5239, 11.9714)

Have a look what the booklet for  
XYZ(35.7698, 71.5239, 11.9714)  
contains.

<b>XYZ(35.7710, 71.5244, 11.9777)</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(35.7710, 71.5244,  
11.9777)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FF02
RGB	0, 255, 2
RGB Percent	0%, 100%, 1%
CMY	1.0000, 0.0000, 0.9920
CMYK	1.00, 0.00, 0.99, 0.00
HSL	120°, 100%, 50%
HSV	120°, 100%, 100%
XYZ	35.7710, 71.5244, 11.9777
YIQ	149.9130, -70.7670, -132.7430

# Conversions

## Conversions Part 2

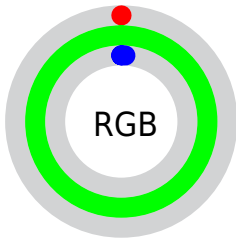
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	0, 253, 255
Decimal	65282
CIELab	87.74, -86.16, 83.03
CIELCh	88, 119.654, 136.059
Yxy	71.5244, 0.2999, 0.5997
Android (android.graphics.Color)	4278255362 (0xFF00FF02)
YUV	149.9130, -72.9211, -131.4737
Hunter-Lab	84.5721, -72.5020, 50.8034

# Details

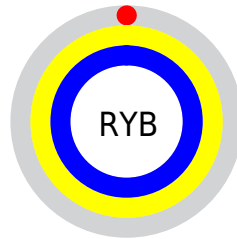
The XYZ color **35.7710, 71.5244, 11.9777** is a dark color, and the websafe version is hex **00FF00**. The color can be described as dark saturated green. A complement of this color would be **58.9640, 28.3497, 95.2632**, and the grayscale version is **29.2764, 30.8010, 33.5423**.

A 20% lighter version of the original color is **45.4815, 76.3034, 22.6868**, and **19.7399, 39.4799, 6.5800** is the 20% darker color. If you saturate the color by 10%, you get **35.7712, 71.5245, 11.9787**, and if you desaturate by 10%, it is **36.3752, 71.8138, 13.0017**.

# Distribution



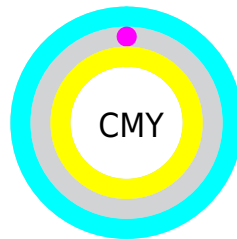
- Red (0%)
- Green (100%)
- Blue (1%)



- Red (0%)
- Yellow (99%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (99%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (99%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.7710, 71.5244, 11.9777 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 35.7710, 71.5244, 11.9777 by changing the saturation by 10% instead.





 35.7710, 71.5244,  
11.9777


 35.7710, 71.5244,  
11.9777


319.4072,  
465.8845, 215.2303


 24.4267, 52.7703,  
6.6061


 68.0046, 121.3801,  
30.1183

 15.7769, 37.6194,  
3.1423


 89.6247, 153.2505,  
43.7244


 9.4562, 25.6874,  
1.1678


 115.4007,  
190.2617, 60.9124

 5.0994, 16.5899,  
0.0000

 145.6980,  
232.7982, 82.1009

 2.3411, 9.9426,  
0.0000

 180.8819,  
281.2443, 107.7084

 0.8156, 5.3609,  
0.0000

 221.3179,

 0.0000, 2.4605,

335.9845, 138.1534

0.0000

267.3712,  
397.4031, 173.8545

■ 0.0000, 0.8568,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 35.7710, 71.5244,  
11.9777

■ 35.7710, 71.5244,  
11.9777

■ 35.7712, 71.5245,  
11.9787


■ 36.3752, 71.8138,  
13.0017


■ 37.7596, 72.4776,  
15.3234


■ 40.1533, 73.6262,  
19.2893


■ 43.6994, 75.3288,  
25.1280

 48.5183, 77.6431,  
33.0319

 54.7152, 80.6197,  
43.1698

 62.3842, 84.3040,  
55.6928

 71.6113, 88.7373,  
70.7391

 82.4759, 93.9577,  
88.4363

# Harmonies

## Analogous

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



53.9754, 71.5244, 3.5471



35.7710, 71.5244, 11.9777



27.5804, 71.5244, 45.9647

# Triad

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



35.7710, 71.5244, 11.9777



55.6627, 71.5244, 349.3749



135.0685, 71.5244, 42.1505

# Complementary

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



35.7710, 71.5244, 11.9777



58.9640, 28.3497, 95.2632

# 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.



135.8950, 71.5244, 121.9299



35.7710, 71.5244, 11.9777



84.2231, 71.5244, 345.3251

# Square

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



35.7710, 71.5244, 11.9777



36.7084, 71.5244, 253.3339



115.3356, 71.5244, 244.4744



113.3193, 71.5244, 10.8433



# Rectangle

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



35.7710, 71.5244, 11.9777



26.8725, 71.5244, 95.5663



115.3356, 71.5244, 244.4744



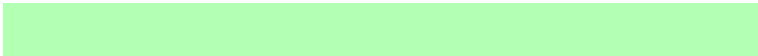
137.9729, 71.5244, 62.5190

# Sweetspot

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



35.7712, 71.5245, 11.9788



62.3829, 84.3034, 55.6908



77.0000, 92.7800, 13.8501



12.6208, 17.6929, 10.7258



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.



35.7712, 71.5245, 11.9788



35.7712, 71.5245, 11.9787



39.6236, 73.0655, 32.2653



17.7775, 20.1705, 19.1313



18.6937, 37.3741, 6.2725



1.8221, 3.6398, 0.6211



# Inverse Universe

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



58.9640, 28.3497, 95.2632



58.9640, 28.3496, 95.2631



45.1036, 22.8055, 22.2753



18.7861, 18.2978, 22.7567



30.8128, 14.8144, 49.7923

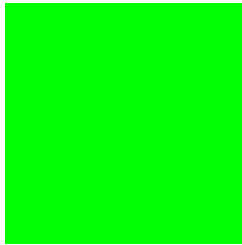


3.0021, 1.4432, 4.8584



# Previews

## White Background



This preview shows how the XYZ color 35.7710, 71.5244, 11.9777 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

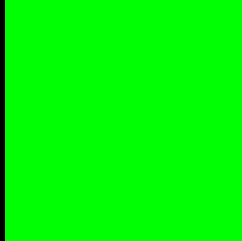
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.7710, 71.5244, 11.9777 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

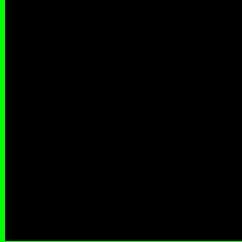
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

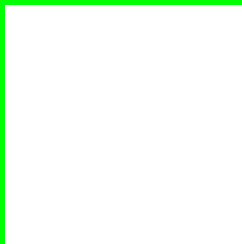
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 35.7710, 71.5244, 11.9777**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.7710, 71.5244, 11.9777.



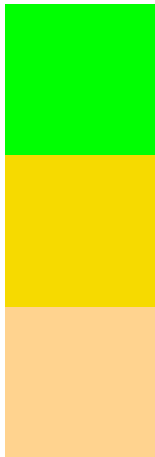
This preview shows how white text looks on a background with the XYZ color 35.7710, 71.5244,



# 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

35.7710, 71.5244, 11.9777

### Protanopia

63.0774, 69.7356, 10.1358

### Deuteranopia

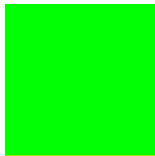
69.4922, 69.8317, 35.8028



## Tritanopia

54.8555, 70.7216, 105.3672

# Trichromacy



## Original Color

35.7710, 71.5244, 11.9777



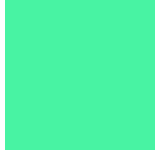
## Protanomaly

42.4860, 64.3221, 10.2049



## Deuteranomaly

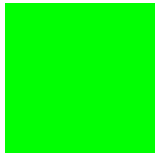
44.3011, 63.3923, 20.0262



## Tritanomaly

41.3339, 68.1232, 45.6209

# Monochromacy



## Original Color

35.7710, 71.5244, 11.9777



## Achromatopsia

28.9890, 30.4987, 33.2131



## Achromatomaly

24.8139, 39.2439, 17.3333

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.7710, 71.5244, 11.9777 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(0, 255, 2)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 2)  
}
```

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(0, 255, 2) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 2) }
```

## Border

The CSS property to change the border of an element to XYZ 35.7710, 71.5244, 11.9777 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(0, 255, 2) }
```



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

```
.border{ border-color:rgb(0, 255, 2) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 255, 2)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 2); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 255, 2); box-shadow:4px  
4px 4px 4px rgb(0, 255, 2) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.7710, 71.5244, 11.9777 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 255, 2) }
```

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

```
.background{ background-color: rgb(0, 255,  
2) }
```

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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