

# Converting Colors

XYZ(36.8589, 72.0073, 15.5515)

Have a look what the booklet for  
XYZ(36.8589, 72.0073, 15.5515)  
contains.

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# Color

**XYZ(36.8505, 72.0025,  
15.5701)**

# Conversions

## Conversions Part 1

Format	Color
Hex	19FF37
RGB	25, 255, 55
RGB Percent	10%, 100%, 22%
CMY	0.9020, 0.0000, 0.7843
CMYK	0.90, 0.00, 0.78, 0.00
HSL	128°, 100%, 55%
HSV	128°, 90%, 100%
XYZ	36.8505, 72.0025, 15.5701
YIQ	163.4300, -72.8800, -110.9600

# Conversions

## Conversions Part 2

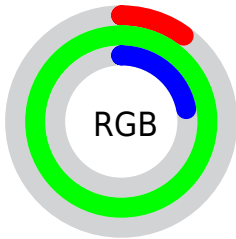
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	25, 228, 255
Decimal	1703735
CIE Lab	87.97, -83.56, 74.67
CIE LCh	88, 112.060, 138.213
Yxy	72.0025, 0.2962, 0.5787
Android (android.graphics.Color)	4279893815 (0xFF19FF37)
YUV	163.4300, -53.4560, -121.4031
Hunter-Lab	84.8543, -70.9761, 48.5187

# Details

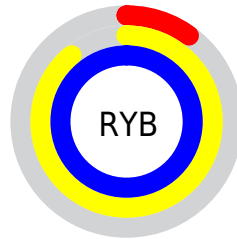
The XYZ color **36.8505, 72.0025, 15.5701** is a dark color, and the websafe version is hex **00FF33**. The color can be described as dark washed green. A complement of this color would be **55.1773, 27.3912, 73.6078**, and the grayscale version is **35.2869, 37.1246, 40.4286**.

A 20% lighter version of the original color is **47.1393, 77.0153, 29.2106**, and **19.7399, 39.4799, 6.5800** is the 20% darker color. If you saturate the color by 10%, you get **36.0383, 71.6313, 13.3855**, and if you desaturate by 10%, it is **38.4463, 72.7493, 19.0707**.

# Distribution



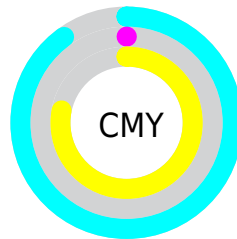
- Red (10%)
- Green (100%)
- Blue (22%)



- Red (10%)
- Yellow (89%)
- Blue (100%)



- Cyan (90%)
- Magenta (0%)
- Yellow (78%)
- Black (0%)




- Cyan (90%)
- Magenta (0%)
- Yellow (78%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.8505, 72.0025, 15.5701 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 36.8505, 72.0025, 15.5701 by changing the saturation by 10% instead.





 36.8505, 72.0025,  
15.5701


 36.8505, 72.0025,  
15.5701


324.0296,  
467.5503, 238.5499


 25.2649, 53.1607,  
9.0694


 69.6581, 122.0601,  
36.6066

 16.4043, 37.9311,  
4.6891


 91.6109, 154.0447,  
51.9795

 9.9034, 25.9292,  
2.0105


 117.7500,  
191.1790, 71.1469

 5.3967, 16.7707,  
0.5617

 148.4409,  
233.8474, 94.5273

 2.5190, 10.0711,  
0.0000

 184.0490,  
282.4344, 122.5392

 0.9048, 5.4461,  
0.0000

224.9396,

 0.0000, 2.5113,

337.3243, 155.6013

0.0000

271.4780,  
398.9014, 194.1320

■ 0.0000, 0.8823,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 36.8505, 72.0025,  
15.5701

■ 36.8505, 72.0025,  
15.5701


■ 36.0383, 71.6313,  
13.3855


■ 38.4463, 72.7493,  
19.0707


■ 41.0098, 73.9642,  
24.0087


■ 44.6669, 75.7092,  
30.5187

■ 49.5239, 78.0367,  
38.7185

 55.6745, 80.9925,  
48.7149

 63.2028, 84.6181,  
60.6057

 72.1859, 88.9512,  
74.4818

 82.6952, 94.0269,  
90.4281

94.7973, 99.8778,  
108.5246

# Harmonies

## Analogous

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



53.6116, 72.0025, 5.2540



36.8505, 72.0025, 15.5701



29.4785, 72.0025, 52.0371

# Triad

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



36.8505, 72.0025, 15.5701



58.4760, 72.0025, 328.3697



129.7024, 72.0025, 40.8381

# Complementary

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



36.8505, 72.0025, 15.5701



55.1773, 27.3912, 73.6078

# 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.



131.9970, 72.0025, 112.4300



36.8505, 72.0025, 15.5701



85.7690, 72.0025, 317.4090

# Square

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



36.8505, 72.0025, 15.5701



39.6103, 72.0025, 247.0667



114.2960, 72.0025, 222.8510



108.6625, 72.0025, 11.9301



# Rectangle

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



36.8505, 72.0025, 15.5701



29.1626, 72.0025, 101.3345



114.2960, 72.0025, 222.8510



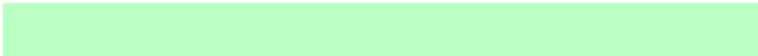
132.8602, 72.0025, 59.2141

# Sweetspot

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



36.8508, 72.0026, 15.5713



65.9115, 85.9240, 64.8196



67.9834, 88.1115, 14.3439



13.4894, 18.0932, 12.9119



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.



36.8508, 72.0026, 15.5713



36.0383, 71.6313, 13.3855



43.1207, 74.5106, 48.5881



17.8680, 20.2067, 19.6079



18.8603, 37.4407, 7.1497



1.8649, 3.6569, 0.8464



# Inverse Universe

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



55.1773, 27.3912, 73.6078



54.3887, 26.5195, 71.1704



44.5778, 23.1514, 17.7915



18.6847, 18.2572, 22.2226



28.4591, 13.8729, 37.3977

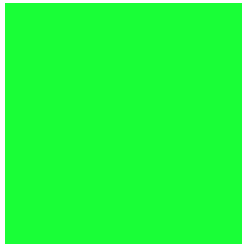


2.7981, 1.3616, 3.7844



# Previews

## White Background



This preview shows how the XYZ color 36.8505, 72.0025, 15.5701 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 36.8505, 72.0025, 15.5701 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

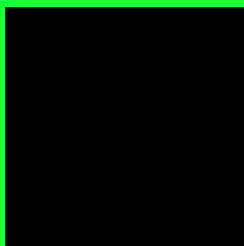
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 36.8505, 72.0025, 15.5701

## Background



This preview shows how black text looks on a background with the XYZ color 36.8505, 72.0025, 15.5701.



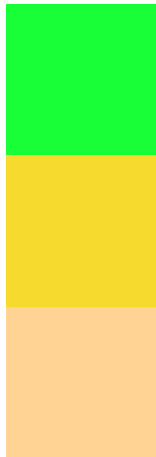
This preview shows how white text looks on a background with the XYZ color 36.8505, 72.0025,



# 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

36.8505, 72.0025, 15.5701

### Protanopia

63.8307, 70.4531, 12.8193

### Deuteranopia

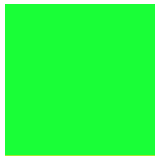
69.8007, 69.9551, 37.4276



## Tritanopia

55.6703, 71.5703, 105.4881

# Trichromacy



## Original Color

36.8505, 72.0025, 15.5701



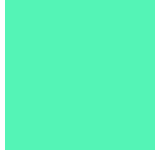
## Protanomaly

45.1369, 66.0420, 13.2741



## Deuteranomaly

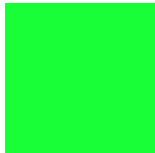
47.3009, 64.8110, 25.9363



## Tritanomaly

44.4503, 69.9636, 55.4175

# Monochromacy



## Original Color

36.8505, 72.0025, 15.5701



## Achromatopsia

34.8123, 36.6253, 39.8849



## Achromatomaly

30.1881, 44.4458, 26.0566

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.8505, 72.0025, 15.5701 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(25, 255, 55)` looks like.

```
.text, #text, p{  
    color:rgb(25, 255, 55)  
}
```

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(25, 255, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(25, 255, 55) }
```

## Border

The CSS property to change the border of an element to XYZ 36.8505, 72.0025, 15.5701 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(25, 255, 55) }
```



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

```
.border{ border-color:rgb(25, 255, 55) }
```

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

Here you see how a box with a 4 pixel `rgb(25, 255, 55)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(25, 255, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(25, 255, 55);  
box-shadow:4px 4px 4px 4px rgb(25, 255,  
55) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.8505, 72.0025, 15.5701 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(25, 255, 55) }
```

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

```
.background{ background-color: rgb(25, 255,  
55) }
```

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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