

# Converting Colors

XYZ(36.8886, 72.0667, 13.5580)

Have a look what the booklet for  
XYZ(36.8886, 72.0667, 13.5580)  
contains.

<b>XYZ(36.9001, 72.0727, 13.5567)</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(36.9001, 72.0727,  
13.5567)**

# Conversions

## Conversions Part 1

Format	Color
Hex	27FF23
RGB	39, 255, 35
RGB Percent	15%, 100%, 14%
CMY	0.8471, 0.0000, 0.8627
CMYK	0.85, 0.00, 0.86, 0.00
HSL	119°, 100%, 57%
HSV	119°, 86%, 100%
XYZ	36.9001, 72.0727, 13.5567
YIQ	165.3360, -58.1160, -114.2120

# Conversions

## Conversions Part 2

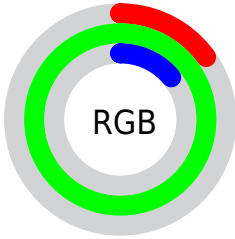
<b>Format</b>	<b>Color</b>
<b>RYB</b>	35, 255, 251
Decimal	2621219
CIELab	88.00, -83.54, 79.45
CIELCh	88, 115.285, 136.437
Yxy	72.0727, 0.3012, 0.5882
Android (android.graphics.Color)	4280811299 (0xFF27FF23)
YUV	165.3360, -64.2556, -110.7967
Hunter-Lab	84.8956, -70.9819, 49.9591

# Details

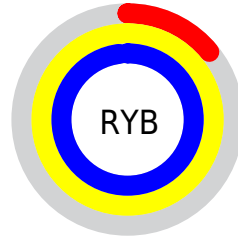
The XYZ color **36.9001, 72.0727, 13.5567** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **58.4400, 28.9347, 97.1126**, and the grayscale version is **36.2459, 38.1336, 41.5274**.

A 20% lighter version of the original color is **47.1608, 77.1087, 25.4945**, and **19.7399, 39.4799, 6.5800** is the 20% darker color. If you saturate the color by 10%, you get **35.9927, 71.6339, 12.2029**, and if you desaturate by 10%, it is **38.7062, 72.9430, 16.3860**.

# Distribution



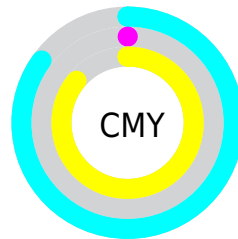
- Red (15%)
- Green (100%)
- Blue (14%)



- Red (14%)
- Yellow (100%)
- Blue (98%)



- Cyan (85%)
- Magenta (0%)
- Yellow (86%)
- Black (0%)




- Cyan (85%)
- Magenta (0%)
- Yellow (86%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.9001, 72.0727, 13.5567 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 36.9001, 72.0727, 13.5567 by changing the saturation by 10% instead.





 36.9001, 72.0727,  
13.5567


 36.9001, 72.0727,  
13.5567


324.2409,  
467.7946, 225.7870

 25.3035, 53.2181,  
7.6778


 69.7339, 122.1599,  
33.0061


 16.4332, 37.9769,  
3.8047


 91.7019, 154.1612,  
47.4136


 9.9240, 25.9647,  
1.5188


 117.8576,  
191.3136, 65.5012

 5.4105, 16.7973,  
0.2319

 148.5665,  
234.0014, 87.6872

 2.5273, 10.0901,  
0.0000

 184.1939,  
282.6090, 114.3902

 0.9090, 5.4587,  
0.0000

225.1052,

 0.0000, 2.5188,

337.5208, 146.0289

0.0000

271.6657,  
399.1212, 183.0216

■ 0.0000, 0.8860,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 36.9001, 72.0727,  
13.5567

■ 36.9001, 72.0727,  
13.5567

■ 35.9927, 71.6339,  
12.2029


■ 38.7062, 72.9430,  
16.3860


■ 35.8178, 71.5498,  
11.9227


■ 41.5675, 74.3198,  
20.9615


■ 45.6120, 76.2642,  
27.5044

■ 50.9494, 78.8287,  
36.2025

 57.6766, 82.0598,  
47.2220

 65.8816, 85.9995,  
60.7124

 75.6450, 90.6865,  
76.8111

 87.0416, 96.1566,  
95.6451

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



54.6102, 72.0727, 4.4215



36.9001, 72.0727, 13.5567



28.9005, 72.0727, 48.0628

# Triad

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



36.9001, 72.0727, 13.5567



56.8416, 72.0727, 336.7263



132.7233, 72.0727, 42.9651

# Complementary

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



36.9001, 72.0727, 13.5567



58.4400, 28.9347, 97.1126

# 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.



133.7926, 72.0727, 119.5901



36.9001, 72.0727, 13.5567



84.5722, 72.0727, 331.5637

# Square

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



36.9001, 72.0727, 13.5567



38.1552, 72.0727, 247.1805



114.3784, 72.0727, 235.8223



111.7601, 72.0727, 11.9586



# Rectangle

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



36.9001, 72.0727, 13.5567



28.2636, 72.0727, 96.6970



114.3784, 72.0727, 235.8223



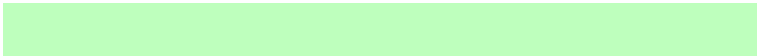
135.5826, 72.0727, 62.6992

# Sweetspot

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



36.9003, 72.0728, 13.5578



66.1234, 86.1156, 61.1105



75.0087, 88.3117, 14.6837



13.5048, 18.1210, 12.0130



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.



36.9003, 72.0728, 13.5578



35.8178, 71.5498, 11.9227



41.0175, 73.7031, 35.9856



17.8020, 20.1838, 19.1019



18.7288, 37.3931, 6.2305



1.8338, 3.6461, 0.6071



# Inverse Universe

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



58.4400, 28.9347, 97.1126



57.6104, 27.6141, 96.9014



47.5369, 24.7411, 32.1221



18.7582, 18.2826, 22.7902



30.1175, 14.4366, 50.6338

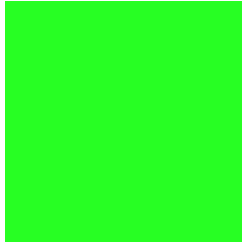


2.9424, 1.4108, 4.9305



# Previews

## White Background



This preview shows how the XYZ color 36.9001, 72.0727, 13.5567 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

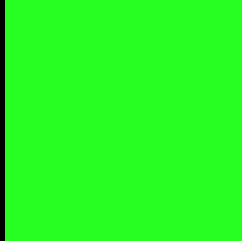
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.9001, 72.0727, 13.5567 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

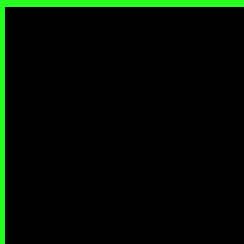
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 36.9001, 72.0727, 13.5567**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.9001, 72.0727, 13.5567.



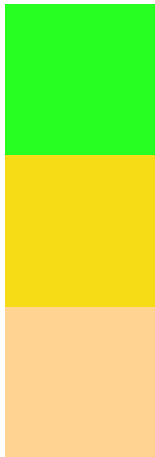
This preview shows how white text looks on a background with the XYZ color 36.9001, 72.0727,



# 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

36.9001, 72.0727, 13.5567

### Protanopia

63.4922, 70.3177, 11.0369

### Deuteranopia

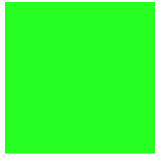
69.7226, 69.9239, 37.0160



## Tritanopia

55.5167, 71.0625, 105.3981

# Trichromacy



## Original Color

36.9001, 72.0727, 13.5567



## Protanomaly

45.8490, 66.4503, 11.4466



## Deuteranomaly

47.9751, 65.2089, 23.6937



## Tritanomaly

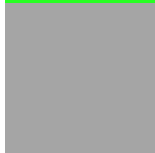
43.9083, 69.3202, 51.6234

# Monochromacy



## Original Color

36.9001, 72.0727, 13.5567



## Achromatopsia

35.7637, 37.6262, 40.9749



## Achromatomaly

31.0718, 45.6181, 24.3071

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.9001, 72.0727, 13.5567 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(39, 255, 35)` looks like.

```
.text, #text, p{  
    color:rgb(39, 255, 35)  
}
```

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(39, 255, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(39, 255, 35) }
```

## Border

The CSS property to change the border of an element to XYZ 36.9001, 72.0727, 13.5567 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(39, 255, 35) }
```



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

```
.border{ border-color:rgb(39, 255, 35) }
```

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

Here you see how a box with a 4 pixel `rgb(39, 255, 35)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(39, 255, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(39, 255, 35);  
box-shadow:4px 4px 4px 4px rgb(39, 255,  
35) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.9001, 72.0727, 13.5567 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(39, 255, 35) }
```

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

```
.background{ background-color: rgb(39, 255,  
35) }
```

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