

# Converting Colors

XYZ(37.4101, 72.3070, 14.8758)

Have a look what the booklet for  
XYZ(37.4101, 72.3070, 14.8758)  
contains.

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# Color

**XYZ(37.3966, 72.2996,  
14.8900)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2DFF31
RGB	45, 255, 49
RGB Percent	18%, 100%, 19%
CMY	0.8235, 0.0000, 0.8078
CMYK	0.82, 0.00, 0.81, 0.00
HSL	121°, 100%, 59%
HSV	121°, 82%, 100%
XYZ	37.3966, 72.2996, 14.8900
YIQ	168.7260, -59.0340, -108.5860

# Conversions

## Conversions Part 2

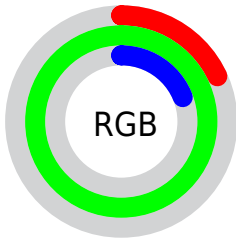
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">45, 251, 255</a>
Decimal	<a href="#">3014449</a>
CIELab	<a href="#">88.11, -82.38, 76.46</a>
CIElCh	<a href="#">88, 112.397, 137.133</a>
Yxy	<a href="#">72.2996, 0.3002, 0.5803</a>
Android (android.graphics.Color)	<a href="#">4281204529 (0xFF2DFF31)</a>
YUV	<a href="#">168.7260, -59.0249, -108.5077</a>
Hunter-Lab	<a href="#">85.0292, -70.2951, 49.1378</a>

# Details

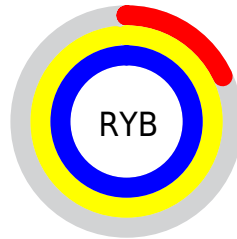
The XYZ color **37.3966, 72.2996, 14.8900** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **59.5896, 30.1014, 93.9289**, and the grayscale version is **37.8808, 39.8536, 43.4005**.

A 20% lighter version of the original color is **47.8906, 77.4357, 27.7517**, and **19.7399, 39.4799, 6.5800** is the 20% darker color. If you saturate the color by 10%, you get **36.2033, 71.7295, 12.8011**, and if you desaturate by 10%, it is **39.5590, 73.3356, 18.5530**.

# Distribution



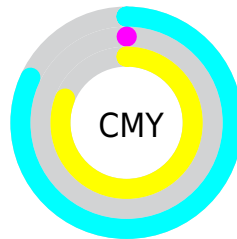
- Red (18%)
- Green (100%)
- Blue (19%)



- Red (18%)
- Yellow (98%)
- Blue (100%)



- Cyan (82%)
- Magenta (0%)
- Yellow (81%)
- Black (0%)




- Cyan (82%)
- Magenta (0%)
- Yellow (81%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.3966, 72.2996, 14.8900 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 37.3966, 72.2996, 14.8900 by changing the saturation by 10% instead.





 37.3966, 72.2996,  
14.8900


 37.3966, 72.2996,  
14.8900


326.3502,  
468.5837, 234.3172

 25.6898, 53.4035,  
8.5965


 70.4922, 122.4824,  
35.3997

 16.7232, 38.1249,  
4.3857


 92.6117, 154.5378,  
50.4529


 10.1314, 26.0797,  
1.8392


 118.9329,  
191.7485, 69.2630

 5.5491, 16.8833,  
0.4537

 149.8210,  
234.4987, 92.2487

 2.6109, 10.1513,  
0.0000

 185.6414,  
283.1730, 119.8284

 0.9515, 5.4994,  
0.0000

226.7595,

 0.0000, 2.5431,

338.1556, 152.4207

0.0000

273.5407,  
399.8311, 190.4441

■ 0.0000, 0.8982,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.3966, 72.2996,  
14.8900

■ 37.3966, 72.2996,  
14.8900

■ 36.2033, 71.7295,  
12.8011


■ 39.5590, 73.3356,  
18.5530


■ 35.7867, 71.5307,  
12.0604


■ 42.8380, 74.9085,  
24.0147


■ 47.3570, 77.0778,  
31.4670


■ 53.2229, 79.8952,  
41.0766

 60.5311, 83.4065,  
52.9924

 69.3685, 87.6537,  
67.3504

 79.8148, 92.6752,  
84.2758

 91.9446, 98.5069,  
103.8855

 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.



54.6028, 72.2996, 5.1003



37.3966, 72.2996, 14.8900



29.6720, 72.2996, 50.1693

# Triad

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



37.3966, 72.2996, 14.8900



57.8494, 72.2996, 328.7895



130.8133, 72.2996, 42.7014

# Complementary

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



37.3966, 72.2996, 14.8900



59.5896, 30.1014, 93.9289

# 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.



132.3469, 72.2996, 116.4586



37.3966, 72.2996, 14.8900



85.0789, 72.2996, 321.4574

# Square

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



37.3966, 72.2996, 14.8900



39.2372, 72.2996, 244.4520



113.9346, 72.2996, 228.2597



110.1704, 72.2996, 12.4702



# Rectangle

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



37.3966, 72.2996, 14.8900



29.1624, 72.2996, 98.5475



113.9346, 72.2996, 228.2597



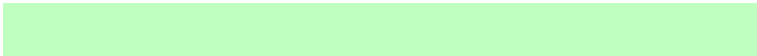
133.7404, 72.2996, 61.7515

# Sweetspot

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



37.3969, 72.2998, 14.8912



66.8751, 86.4553, 63.3037



76.1977, 92.3117, 16.2847



13.6426, 18.1823, 12.4589



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.



37.3969, 72.2998, 14.8912



35.8323, 71.5526, 12.1341



42.6335, 74.3944, 42.4669



17.7856, 20.1738, 19.1742



18.7054, 37.3787, 6.3338



1.8260, 3.6413, 0.6416



# Inverse Universe

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



59.5896, 30.1014, 93.9289



58.5514, 28.2288, 92.9538



47.4058, 25.2279, 29.7698



18.7768, 18.2940, 22.7079



30.5827, 14.7224, 48.5805

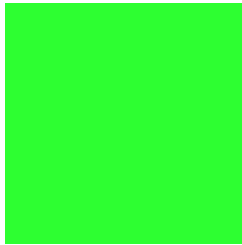


2.9823, 1.4353, 4.7543



# Previews

## White Background



This preview shows how the XYZ color 37.3966, 72.2996, 14.8900 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 37.3966, 72.2996, 14.8900 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

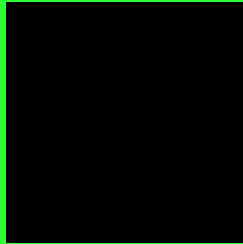
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 37.3966, 72.2996, 14.8900**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.3966, 72.2996, 14.8900.



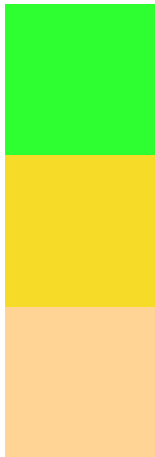
This preview shows how white text looks on a background with the XYZ color 37.3966, 72.2996,



# 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

37.3966, 72.2996, 14.8900

### Protanopia

63.7206, 70.4091, 12.2394

### Deuteranopia

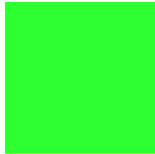
70.1288, 70.4851, 37.9258



## Tritanopia

56.2193, 71.8533, 105.5137

# Trichromacy



## Original Color

37.3966, 72.2996, 14.8900



## Protanomaly

46.5262, 66.7719, 12.7216



## Deuteranomaly

49.2584, 66.2404, 25.5187



## Tritanomaly

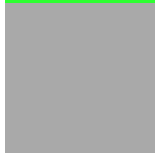
45.1031, 70.3238, 54.3767

# Monochromacy



## Original Color

37.3966, 72.2996, 14.8900



## Achromatopsia

37.7116, 39.6755, 43.2066



## Achromatomaly

32.6681, 47.0743, 26.7665

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.3966, 72.2996, 14.8900 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(45, 255, 49)` looks like.

```
.text, #text, p{  
    color:rgb(45, 255, 49)  
}
```

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(45, 255, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 255, 49) }
```

## Border

The CSS property to change the border of an element to XYZ 37.3966, 72.2996, 14.8900 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(45, 255, 49) }
```



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

```
.border{ border-color:rgb(45, 255, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 255, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 255, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 255, 49);  
box-shadow:4px 4px 4px 4px rgb(45, 255,  
49) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.3966, 72.2996, 14.8900 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 255, 49) }
```

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

```
.background{ background-color: rgb(45, 255,  
49) }
```

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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