

# Converting Colors

XYZ(36.3321, 71.7949, 12.8493)

Have a look what the booklet for  
XYZ(36.3321, 71.7949, 12.8493)  
contains.

<b>XYZ(36.3364, 71.7969, 12.8628)</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(36.3364, 71.7969,  
12.8628)**

# Conversions

## Conversions Part 1

Format	Color
Hex	19FF19
RGB	25, 255, 25
RGB Percent	10%, 100%, 10%
CMY	0.9020, 0.0000, 0.9019
CMYK	0.90, 0.00, 0.90, 0.00
HSL	120°, 100%, 55%
HSV	120°, 90%, 100%
XYZ	36.3364, 71.7969, 12.8628
YIQ	160.0100, -63.2500, -120.2900

# Conversions

## Conversions Part 2

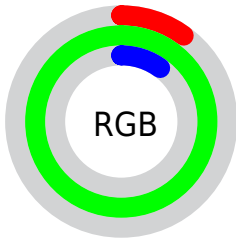
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">25, 255, 255</a>
Decimal	<a href="#">1703705</a>
CIELab	<a href="#">87.87, -84.83, 80.95</a>
CIELCh	<a href="#">88, 117.260, 136.340</a>
Yxy	<a href="#">71.7969, 0.3003, 0.5934</a>
Android (android.graphics.Color)	<a href="#">4279893785 (0xFF19FF19)</a>
YUV	<a href="#">160.0100, -66.5599, -118.4038</a>
Hunter-Lab	<a href="#">84.7331, -71.7360, 50.3127</a>

# Details

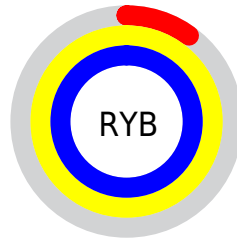
The XYZ color **36.3364, 71.7969, 12.8628** is a dark color, and the websafe version is hex **00FF00**. The color can be described as dark washed green. A complement of this color would be **59.6344, 29.1740, 97.0789**, and the grayscale version is **33.7378, 35.4948, 38.6538**.

A 20% lighter version of the original color is **46.3243, 76.7059, 24.1686**, and **19.7399, 39.4799, 6.5800** is the 20% darker color. If you saturate the color by 10%, you get **35.7601, 71.5200, 11.9206**, and if you desaturate by 10%, it is **37.6872, 72.4457, 15.0737**.

# Distribution



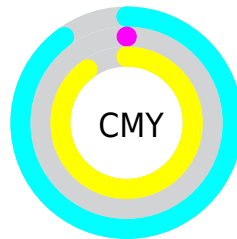
- Red (10%)
- Green (100%)
- Blue (10%)



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



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




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


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.3364, 71.7969, 12.8628 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 36.3364, 71.7969, 12.8628 by changing the saturation by 10% instead.





 36.3364, 71.7969,  
12.8628


 36.3364, 71.7969,  
12.8628


321.8342,  
466.8344, 221.2133


 24.8654, 52.9928,  
7.2045


 68.8715, 121.7677,  
31.7446

 16.1050, 37.7970,  
3.5100


 90.6663, 153.7032,  
45.8053


 9.6898, 25.8252,  
1.3606


 116.6330,  
190.7847, 63.5038

 5.2545, 16.6929,  
0.1107

 147.1372,  
233.3964, 85.2587

 2.4336, 10.0158,  
0.0000

 182.5440,  
281.9228, 111.4886

 0.8619, 5.4094,  
0.0000

 223.2188,

 0.0000, 2.4894,

336.7484, 142.6120

0.0000

269.5271,  
398.2574, 179.0474

■ 0.0000, 0.8713,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 36.3364, 71.7969,  
12.8628

■ 36.3364, 71.7969,  
12.8628


■ 35.7601, 71.5200,  
11.9206


■ 37.6872, 72.4457,  
15.0737


■ 40.0456, 73.5785,  
18.9319


■ 43.5573, 75.2654,  
24.6763

■ 48.3440, 77.5647,  
32.5061

 54.5121, 80.5275,  
42.5953

 62.1568, 84.1997,  
55.0994

 71.3649, 88.6228,  
70.1605

 82.2165, 93.8354,  
87.9095

94.7861, 99.8733,  
108.4684

# Harmonies

## Analogous

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



54.2401, 71.7969, 4.0141



36.3364, 71.7969, 12.8628



28.2743, 71.7969, 47.2296

# Triad

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



36.3364, 71.7969, 12.8628



56.3457, 71.7969, 342.4591



133.7074, 71.7969, 42.4421

# Complementary

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



36.3364, 71.7969, 12.8628



59.6344, 29.1740, 97.0789

# 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.



134.7265, 71.7969, 120.3340



36.3364, 71.7969, 12.8628



84.4646, 71.7969, 337.5054

# Square

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



36.3364, 71.7969, 12.8628



37.5141, 71.7969, 250.1981



114.8447, 71.7969, 239.3276



112.3535, 71.7969, 11.3970



# Rectangle

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



36.3364, 71.7969, 12.8628



27.6189, 71.7969, 96.3883



114.8447, 71.7969, 239.3276



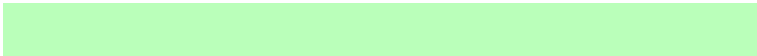
136.6057, 71.7969, 62.4133

# Sweetspot

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



36.3366, 71.7970, 12.8639



64.9257, 85.5297, 59.6283



77.1755, 92.8502, 14.7740



13.2648, 18.0033, 11.7293



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.



36.3366, 71.7970, 12.8639



35.7601, 71.5200, 11.9206



40.8946, 73.6201, 36.8658



17.7717, 20.1682, 19.1009



18.6855, 37.3708, 6.2289



1.8194, 3.6387, 0.6066



# Inverse Universe

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



59.6344, 29.1740, 97.0789



59.2864, 28.4786, 96.9612



46.3213, 23.8487, 26.9729



18.7927, 18.3004, 22.7914



30.9785, 14.8807, 50.6645

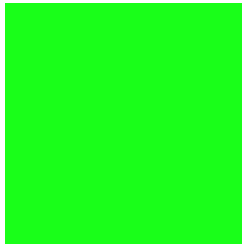


3.0163, 1.4489, 4.9331



# Previews

## White Background



This preview shows how the XYZ color 36.3364, 71.7969, 12.8628 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

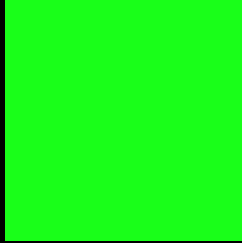
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.3364, 71.7969, 12.8628 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

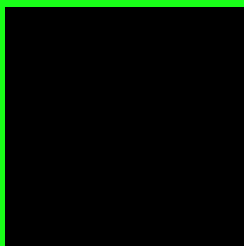
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 36.3364, 71.7969, 12.8628**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.3364, 71.7969, 12.8628.



This preview shows how white text looks on a background with the XYZ color 36.3364, 71.7969,



# 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

36.3364, 71.7969, 12.8628

### Protanopia

63.3376, 70.2559, 10.2225

### Deuteranopia

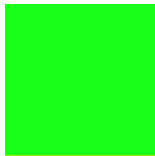
69.5683, 69.8621, 36.2037



## Tritanopia

55.1157, 70.8557, 105.3794

# Trichromacy



## Original Color

36.3364, 71.7969, 12.8628



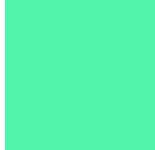
## Protanomaly

44.6318, 65.8399, 10.6145



## Deuteranomaly

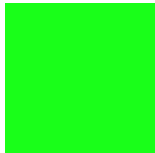
46.6126, 64.5357, 22.3118



## Tritanomaly

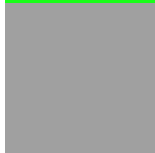
42.8810, 68.8353, 49.5546

# Monochromacy



## Original Color

36.3364, 71.7969, 12.8628



## Achromatopsia

33.4132, 35.1533, 38.2819



## Achromatomaly

28.9399, 43.5574, 21.9211

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.3364, 71.7969, 12.8628 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, 25)` looks like.

```
.text, #text, p{  
    color:rgb(25, 255, 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(25, 255, 25) colored shadow looks like.

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

## Border

The CSS property to change the border of an element to XYZ 36.3364, 71.7969, 12.8628 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, 25) }
```



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

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

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, 25)` colored shadow looks like.

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

# Background

The CSS property to change the background color of an element to XYZ 36.3364, 71.7969, 12.8628 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, 25) }
```

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

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