

Converting Colors

XYZ(36.9697, 72.1436, 11.9766)

Have a look what the booklet for
XYZ(36.9697, 72.1436, 11.9766)
contains.

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Color

**XYZ(36.9789, 72.1484,
11.9770)**

Conversions

Conversions Part 1

Format	Color
Hex	30FF00
RGB	48, 255, 0
RGB Percent	19%, 100%, 0%
CMY	0.8118, 0.0000, 0.9999
CMYK	0.81, 0.00, 1.00, 0.00
HSL	109°, 100%, 50%
HSV	109°, 100%, 100%
XYZ	36.9789, 72.1484, 11.9770
YIQ	164.0370, -41.5170, -123.1890

Conversions

Conversions Part 2

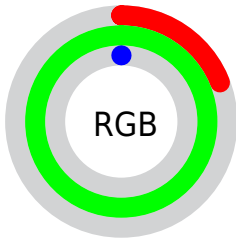
Format	Color
RYB	0, 255, 207
Decimal	3211008
CIELab	88.04, -83.43, 83.55
CIELCh	88, 118.077, 134.960
Yxy	72.1484, 0.3053, 0.5958
Android (android.graphics.Color)	4281401088 (0xFF30FF00)
YUV	164.0370, -80.8702, -101.7644
Hunter-Lab	84.9402, -70.9350, 51.0980

Details

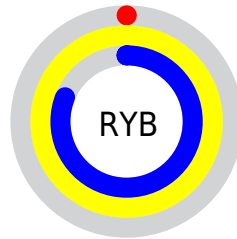
The XYZ color **36.9789, 72.1484, 11.9770** is a dark color, and the websafe version is hex **33FF00**. The color can be described as dark saturated green. A complement of this color would be **43.7933, 20.4918, 96.2549**, and the grayscale version is **35.6937, 37.5525, 40.8947**.

A 20% lighter version of the original color is **47.3646, 77.2793, 22.5452**, and **19.7399, 39.4799, 6.5800** is the 20% darker color. If you saturate the color by 10%, you get **36.9774, 72.1476, 11.9770**, and if you desaturate by 10%, it is **38.3745, 72.8469, 12.9887**.

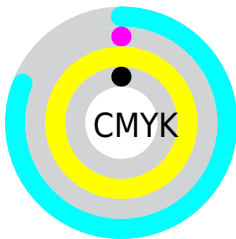
Distribution



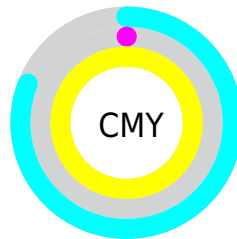
- Red (19%)
- Green (100%)
- Blue (0%)



- Red (0%)
- Yellow (100%)
- Blue (81%)



- Cyan (81%)
- Magenta (0%)
- Yellow (100%)
- Black (0%)





- Cyan (81%)
- Magenta (0%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 36.9789, 72.1484, 11.9770 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 36.9789, 72.1484, 11.9770 by changing the saturation by 10% instead.


 36.9789, 72.1484,
11.9770


 36.9789, 72.1484,
11.9770


324.5763,
468.0580, 215.2255

 25.3648, 53.2799,
6.6057


 69.8544, 122.2675,
30.1170

 16.4792, 38.0263,
3.1421


 91.8464, 154.2869,
43.7227


 9.9569, 26.0031,
1.1676


 118.0285,
191.4587, 60.9103

 5.4324, 16.8259,
0.0000

 148.7659,
234.1673, 82.0983

 2.5405, 10.1105,
0.0000

 184.4240,
282.7972, 107.7053

 0.9157, 5.4723,
0.0000

 225.3682,

 0.0000, 2.5269,

337.7326, 138.1498

0.0000

271.9639,
399.3581, 173.8504

■ 0.0000, 0.8901,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 36.9789, 72.1484,
11.9770

■ 36.9789, 72.1484,
11.9770

■ 36.9774, 72.1476,
11.9770

■ 38.3745, 72.8469,
12.9887

■ 40.5172, 73.9033,
15.2656

■ 43.5272, 75.3713,
19.1899

■ 47.4911, 77.2903,
24.9956

■ 52.4842, 79.6950,
32.8793

■ 58.5740, 82.6165,
43.0127

■ 65.8222, 86.0831,
55.5495

■ 74.2856, 90.1211,
70.6302

■ 84.0173, 94.7551,
88.3843

Harmonies

Analogous

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



55.5206, 72.1484, 3.7905



36.9789, 72.1484, 11.9770



28.4373, 72.1484, 44.7865

Triad

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



36.9789, 72.1484, 11.9770



55.4574, 72.1484, 343.7972



135.3473, 72.1484, 44.9301

Complementary

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



36.9789, 72.1484, 11.9770



43.7933, 20.4918, 96.2549

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.



135.3166, 72.1484, 126.0803



36.9789, 72.1484, 11.9770



83.5301, 72.1484, 343.9467

Square

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



36.9789, 72.1484, 11.9770



36.9436, 72.1484, 247.0682



114.4134, 72.1484, 247.3961



114.4885, 72.1484, 12.0206

Rectangle

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



36.9789, 72.1484, 11.9770



27.5282, 72.1484, 92.7483



114.4134, 72.1484, 247.3961



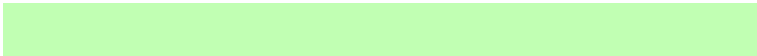
137.9332, 72.1484, 65.8932

Sweetspot

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



36.9791, 72.1484, 11.9781



65.8106, 86.0776, 55.5292



62.8349, 64.4494, 9.1293



13.4012, 18.0968, 10.6898



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.



36.9791, 72.1484, 11.9781



36.9774, 72.1476, 11.9770



37.0834, 72.0494, 18.8862



18.0903, 20.3325, 19.1154



19.4121, 37.7454, 6.2625



1.9708, 3.7168, 0.6135

Inverse Universe

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



43.7933, 20.4918, 96.2549



43.7909, 20.4899, 96.2547



49.3277, 24.4957, 44.5174



18.4380, 18.1175, 22.7752



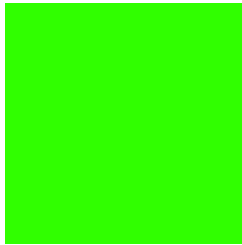
23.0017, 10.7683, 50.3007



2.3221, 1.0910, 4.9015

Previews

White Background



This preview shows how the XYZ color 36.9789, 72.1484, 11.9770 looks on a white background.

Color Contrast Check

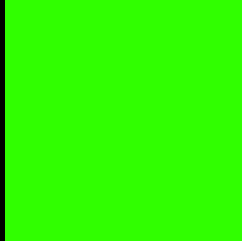
Large Text (above 18pt) WCAG AA × Fail

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 36.9789, 72.1484, 11.9770 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

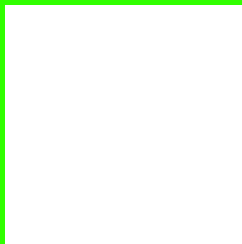
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 36.9789, 72.1484, 11.9770

Background



This preview shows how black text looks on a background with the XYZ color 36.9789, 72.1484, 11.9770.



This preview shows how white text looks on a background with the XYZ color 36.9789, 72.1484,

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

36.9789, 72.1484, 11.9770

Protanopia

63.6893, 70.4372, 10.2390

Deuteranopia

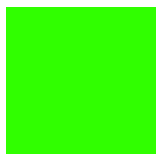
69.9718, 70.4223, 37.0991



Tritanopia

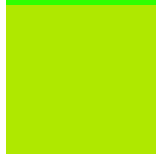
55.9306, 71.2759, 105.4175

Trichromacy



Original Color

36.9789, 72.1484, 11.9770



Protanomaly

46.5358, 66.8272, 10.4462



Deuteranomaly

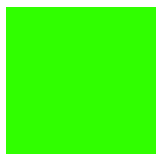
48.5416, 65.9804, 20.5330



Tritanomaly

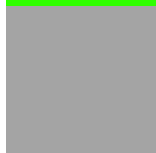
43.1883, 69.0895, 45.2418

Monochromacy



Original Color

36.9789, 72.1484, 11.9770



Achromatopsia

35.2861, 37.1238, 40.4278



Achromatomaly

30.4910, 45.0696, 20.1890

CSS Examples

Text

The CSS property to change the color of the text to XYZ 36.9789, 72.1484, 11.9770 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(48, 255, 0)` looks like.

```
.text, #text, p{  
    color:rgb(48, 255, 0)  
}
```

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(48, 255, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 255, 0) }
```

Border

The CSS property to change the border of an element to XYZ 36.9789, 72.1484, 11.9770 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(48, 255, 0) }
```


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

```
.border{ border-color:rgb(48, 255, 0) }
```

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

Here you see how a box with a 4 pixel rgb(48, 255, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 255, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(48, 255, 0);  
box-shadow:4px 4px 4px 4px rgb(48, 255, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 36.9789, 72.1484, 11.9770 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(48, 255, 0) }
```

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

```
.background{ background-color: rgb(48, 255,  
0) }
```

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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