

Converting Colors

XYZ(20.9924, 36.8131, 12.1228)

Have a look what the booklet for
XYZ(20.9924, 36.8131, 12.1228)
contains.

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Color

**XYZ(20.9754, 36.7439,
12.1177)**

Conversions

Conversions Part 1

Format	Color
Hex	42BA48
RGB	66, 186, 72
RGB Percent	26%, 73%, 28%
CMY	0.7412, 0.2706, 0.7176
CMYK	0.65, 0.00, 0.61, 0.27
HSL	123°, 48%, 49%
HSV	123°, 65%, 73%
XYZ	20.9754, 36.7439, 12.1177
YIQ	137.1240, -34.9260, -60.8940

Conversions

Conversions Part 2

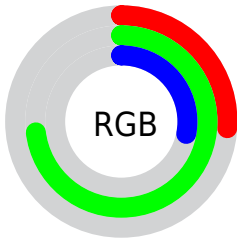
Format	Color
RYB	66, 180, 186
Decimal	4373064
CIELab	67.08, -55.97, 47.05
CIELCh	67, 73.116, 139.950
Yxy	36.7439, 0.3003, 0.5261
Android (android.graphics.Color)	4282563144 (0xFF42BA48)
YUV	137.1240, -32.1061, -62.3757
Hunter-Lab	60.6167, -44.3124, 30.5792

Details

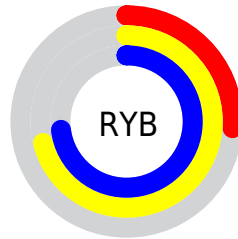
The XYZ color **20.9754, 36.7439, 12.1177** is a dark color, and the websafe version is hex **33CC66**. A complement of this color would be **30.4371, 17.6315, 44.9796**, and the grayscale version is **23.9528, 25.2002, 27.4430**.

A 20% lighter version of the original color is **44.4411, 70.0684, 30.2511**, and **8.2098, 16.2700, 3.1979** is the 20% darker color. If you saturate the color by 10%, you get **19.4242, 36.0026, 9.4567**, and if you desaturate by 10%, it is **23.1015, 37.7645, 15.6719**.

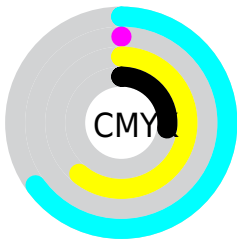
Distribution



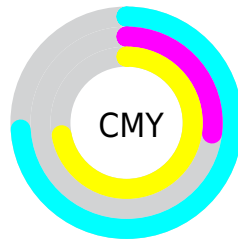
- Red (26%)
- Green (73%)
- Blue (28%)



- Red (26%)
- Yellow (71%)
- Blue (73%)



- Cyan (65%)
- Magenta (0%)
- Yellow (61%)
- Black (27%)





- Cyan (74%)
- Magenta (27%)
- Yellow (72%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 20.9754, 36.7439, 12.1177 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 20.9754, 36.7439, 12.1177 by changing the saturation by 10% instead.


 20.9754, 36.7439,
12.1177


 20.9754, 36.7439,
12.1177

249.8819,
332.2004, 216.1884


 13.2184, 25.0093,
6.7004


 44.5382, 70.1787,
30.3769

 7.6571, 16.0840,
3.1998


 61.0746, 92.6477,
44.0558


 3.9263, 9.5836,
1.1976


 81.2683, 119.4636,
61.3257

 1.6605, 5.1237,
0.0000

 105.4845,
151.0108, 82.6051

 0.4314, 2.3201,
0.0000

 134.0886,
187.6737, 108.3125

 0.0000, 0.7843,
0.0000

167.4460,

 0.0000, 0.0000,

229.8366, 138.8665

0.0000

205.9220,
277.8841, 174.6857

■ 20.9754, 36.7439,
12.1177

■ 20.9754, 36.7439,
12.1177

■ 19.4242, 36.0026,
9.4567

■ 23.1015, 37.7645,
15.6719

■ 18.3894, 35.5090,
7.6074

■ 25.8483, 39.0835,
20.1864

■ 17.8048, 35.2320,
6.4779

■ 29.2602, 40.7234,
25.7248

■ 17.6106, 35.1396,
6.1216

■ 33.3768, 42.7033,
32.3445

■ 38.2345, 45.0409,
40.0987

■ 43.8671, 47.7526,
49.0370

■ 50.3066, 50.8539,
59.2062

■ 57.5829, 54.3592,
70.6505

■ 65.7246, 58.2824,
83.4118

Harmonies

Analogous

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



28.1220, 36.7439, 5.6324



20.9754, 36.7439, 12.1177



17.8119, 36.7439, 30.2411

Triad

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



20.9754, 36.7439, 12.1177



31.3225, 36.7439, 135.7252



59.1369, 36.7439, 22.5343

Complementary

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



20.9754, 36.7439, 12.1177



30.4371, 17.6315, 44.9796

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.



60.5046, 36.7439, 51.6790



20.9754, 36.7439, 12.1177



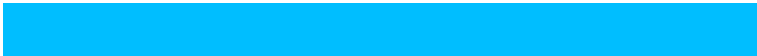
42.7428, 36.7439, 129.6407

Square

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



20.9754, 36.7439, 12.1177



22.8889, 36.7439, 107.6115



53.9907, 36.7439, 93.7909



50.5754, 36.7439, 9.0492

Rectangle

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



20.9754, 36.7439, 12.1177



17.8078, 36.7439, 51.5542



53.9907, 36.7439, 93.7909



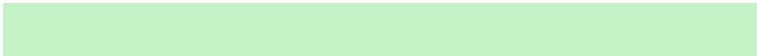
60.5140, 36.7439, 30.3287

Sweetspot

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



20.9763, 36.7454, 12.1185



64.9031, 79.5203, 65.6721



37.3662, 45.2162, 11.9127



13.7458, 17.2485, 13.5883



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



20.9763, 36.7454, 12.1185



34.3972, 64.8680, 15.7161



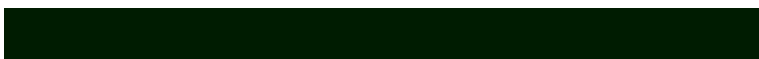
23.9715, 37.9435, 27.8911



8.9081, 10.0672, 9.6733



11.8557, 23.6432, 4.1622



0.4241, 0.8360, 0.1793

Inverse Universe

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



30.4371, 17.6315, 44.9796



52.8009, 27.6012, 79.5757



25.5891, 15.6922, 19.4502



9.3610, 9.1548, 11.2485



18.9505, 9.1539, 28.6896



0.6740, 0.3251, 1.0429

Previews

White Background



This preview shows how the XYZ color 20.9754, 36.7439, 12.1177 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 20.9754, 36.7439, 12.1177 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 20.9754, 36.7439, 12.1177

Background



This preview shows how black text looks on a background with the XYZ color 20.9754, 36.7439, 12.1177.



This preview shows how white text looks on a background with the XYZ color 20.9754, 36.7439,

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

20.9754, 36.7439, 12.1177

Protanopia

32.9305, 36.0461, 10.2230

Deuteranopia

36.5940, 35.8474, 12.7751



Tritanopia

29.0370, 36.3897, 53.0705

Trichromacy



Original Color

20.9754, 36.7439, 12.1177



Protanomaly

26.2538, 35.0321, 10.8470



Deuteranomaly

27.7739, 34.4018, 12.3841



Tritanomaly

24.8550, 35.8474, 32.8034

Monochromacy



Original Color

20.9754, 36.7439, 12.1177



Achromatopsia

23.7775, 25.0158, 27.2422



Achromatomaly

21.2575, 28.0145, 19.9097

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.9754, 36.7439, 12.1177 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(66, 186, 72)` looks like.

```
.text, #text, p{  
    color:rgb(66, 186, 72)  
}
```

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(66, 186, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 186, 72) }
```

Border

The CSS property to change the border of an element to XYZ 20.9754, 36.7439, 12.1177 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(66, 186, 72) }
```


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

```
.border{ border-color:rgb(66, 186, 72) }
```

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

Here you see how a box with a 4 pixel `rgb(66, 186, 72)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 186, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(66, 186, 72);  
box-shadow:4px 4px 4px 4px rgb(66, 186,  
72) }
```

Background

The CSS property to change the background color of an element to XYZ 20.9754, 36.7439, 12.1177 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 186, 72) }
```

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

```
.background{ background-color: rgb(66, 186,  
72) }
```

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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