

Converting Colors

XYZ(19.8491, 33.8603, 12.4654)

Have a look what the booklet for
XYZ(19.8491, 33.8603, 12.4654)
contains.

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Color

**XYZ(19.9854, 34.0781,
12.5456)**

Conversions

Conversions Part 1

Format	Color
Hex	46B34D
RGB	70, 179, 77
RGB Percent	27%, 70%, 30%
CMY	0.7255, 0.2980, 0.6980
CMYK	0.61, 0.00, 0.57, 0.30
HSL	124°, 44%, 49%
HSV	124°, 61%, 70%
XYZ	19.9854, 34.0781, 12.5456
YIQ	134.7810, -32.2220, -54.8300

Conversions

Conversions Part 2

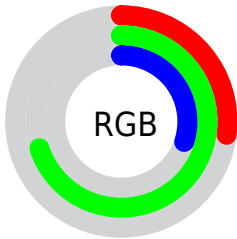
Format	Color
RYB	70, 172, 179
Decimal	4633421
CIELab	65.02, -51.92, 42.38
CIElCh	65, 67.019, 140.780
Yxy	34.0781, 0.3000, 0.5116
Android (android.graphics.Color)	4282823501 (0xFF46B34D)
YUV	134.7810, -28.4860, -56.8129
Hunter-Lab	58.3765, -41.0486, 28.1216

Details

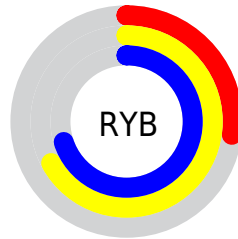
The XYZ color **19.9854, 34.0781, 12.5456** is a dark color, and the websafe version is hex **66CC66**. A complement of this color would be **28.2278, 16.9430, 40.8124**, and the grayscale version is **23.0594, 24.2602, 26.4194**.

A 20% lighter version of the original color is **43.0112, 66.2430, 31.2881**, and **7.5091, 14.7374, 3.3685** is the 20% darker color. If you saturate the color by 10%, you get **18.3644, 33.3032, 9.7703**, and if you desaturate by 10%, it is **22.1452, 35.1151, 16.1425**.

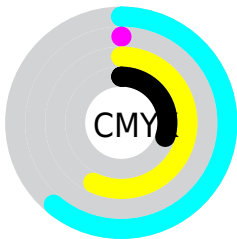
Distribution



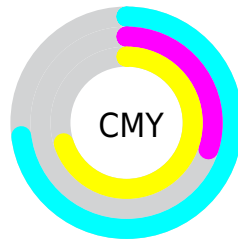
- Red (27%)
- Green (70%)
- Blue (30%)



- Red (27%)
- Yellow (67%)
- Blue (70%)



- Cyan (61%)
- Magenta (0%)
- Yellow (57%)
- Black (30%)





- Cyan (73%)
- Magenta (30%)
- Yellow (70%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 19.9854, 34.0781, 12.5456 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 19.9854, 34.0781, 12.5456 by changing the saturation by 10% instead.


 19.9854, 34.0781,
12.5456


 19.9854, 34.0781,
12.5456


244.6711,
320.4802, 219.0892


 12.4926, 22.9536,
6.9894


 42.8968, 66.0551,
31.1641


 7.1547, 14.5593,
3.3771


 59.0462, 87.6764,
45.0635


 3.6062, 8.5106,
1.2903


 78.8118, 113.5654,
62.5810

 1.4819, 4.4234,
0.0538

 102.5591,
144.1066, 84.1351

 0.3134, 1.9131,
0.0000

 130.6533,
179.6842, 110.1445

 0.0000, 0.5562,
0.0000

163.4598,

 0.0000, 0.0000,

220.6828, 141.0276

0.0000

201.3439,
267.4866, 177.2029

■ 19.9854, 34.0781,
12.5456

■ 19.9854, 34.0781,
12.5456

■ 18.3644, 33.3032,
9.7703

■ 22.1452, 35.1151,
16.1425

■ 17.2324, 32.7632,
7.7498

■ 24.8830, 36.4303,
20.6163

■ 16.5346, 32.4324,
6.4106

■ 28.2372, 38.0433,
26.0204

■ 16.1841, 32.2669,
5.7072

■ 32.2422, 39.9709,
32.4031

■ 36.9299, 42.2284,
39.8093

■ 42.3302, 44.8305,
48.2814

■ 48.4710, 47.7905,
57.8591

■ 55.3787, 51.1215,
68.5803

■ 63.0787, 54.8355,
80.4809

Harmonies

Analogous

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



26.2150, 34.0781, 6.2228



19.9854, 34.0781, 12.5456



17.2506, 34.0781, 29.1893

Triad

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



19.9854, 34.0781, 12.5456



29.4933, 34.0781, 118.7203



53.1390, 34.0781, 21.2009

Complementary

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



19.9854, 34.0781, 12.5456



28.2278, 16.9430, 40.8124

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.



54.5026, 34.0781, 46.3367



19.9854, 34.0781, 12.5456



39.4662, 34.0781, 112.7778

Square

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



19.9854, 34.0781, 12.5456



21.9725, 34.0781, 95.7593



49.0903, 34.0781, 82.1509



45.6691, 34.0781, 9.2046

Rectangle

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



19.9854, 34.0781, 12.5456



17.3086, 34.0781, 48.0164



49.0903, 34.0781, 82.1509



54.3780, 34.0781, 27.9866

Sweetspot

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



19.9862, 34.0795, 12.5464



59.7978, 72.5734, 61.2877



34.5825, 41.6312, 12.0073



12.7421, 15.8350, 12.7761



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787

Same Dimension

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



19.9862, 34.0795, 12.5464



32.1190, 59.2750, 16.1454



22.6726, 35.1541, 26.6926



8.4104, 9.4987, 9.1548



11.4451, 22.8040, 4.0807



0.3674, 0.7204, 0.1667

Inverse Universe

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



28.2278, 16.9430, 40.8124



48.1267, 25.9103, 70.9878



24.1142, 15.2976, 19.1508



8.8260, 8.6371, 10.5821



18.1077, 8.7606, 26.7909



0.5768, 0.2785, 0.8800

Previews

White Background



This preview shows how the XYZ color 19.9854, 34.0781, 12.5456 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 19.9854, 34.0781, 12.5456 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 19.9854, 34.0781, 12.5456

Background



This preview shows how black text looks on a background with the XYZ color 19.9854, 34.0781, 12.5456.



This preview shows how white text looks on a background with the XYZ color 19.9854, 34.0781,

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

19.9854, 34.0781, 12.5456

Protanopia

30.6180, 33.5548, 10.6573

Deuteranopia

34.1254, 33.3572, 13.2343



Tritanopia

27.2700, 33.8695, 49.3561

Trichromacy



Original Color

19.9854, 34.0781, 12.5456



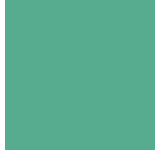
Protanomaly

24.8111, 32.6255, 11.2930



Deuteranomaly

26.3065, 32.0467, 12.7818



Tritanomaly

23.7170, 33.5449, 31.6104

Monochromacy



Original Color

19.9854, 34.0781, 12.5456



Achromatopsia

23.0288, 24.2281, 26.3844



Achromatomaly

20.6594, 26.7276, 19.9897

CSS Examples

Text

The CSS property to change the color of the text to XYZ 19.9854, 34.0781, 12.5456 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(70, 179, 77)` looks like.

```
.text, #text, p{  
    color:rgb(70, 179, 77)  
}
```

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(70, 179, 77) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 179, 77) }
```

Border

The CSS property to change the border of an element to XYZ 19.9854, 34.0781, 12.5456 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(70, 179, 77) }
```


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

```
.border{ border-color:rgb(70, 179, 77) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 179, 77)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 179, 77); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 179, 77);  
box-shadow:4px 4px 4px 4px rgb(70, 179,  
77) }
```

Background

The CSS property to change the background color of an element to XYZ 19.9854, 34.0781, 12.5456 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 179, 77) }
```

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

```
.background{ background-color: rgb(70, 179,  
77) }
```

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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