

Converting Colors

XYZ(20.8962, 33.1793, 13.0140)

Have a look what the booklet for
XYZ(20.8962, 33.1793, 13.0140)
contains.

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Color

**XYZ(20.8377, 33.0398,
13.0636)**

Conversions

Conversions Part 1

Format	Color
Hex	5AAE51
RGB	90, 174, 81
RGB Percent	35%, 68%, 32%
CMY	0.6471, 0.3176, 0.6823
CMYK	0.48, 0.00, 0.53, 0.32
HSL	114°, 36%, 50%
HSV	114°, 53%, 68%
XYZ	20.8377, 33.0398, 13.0636
YIQ	138.2820, -20.2110, -46.7310

Conversions

Conversions Part 2

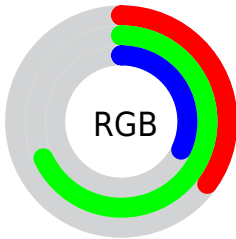
Format	Color
RYB	81, 174, 165
Decimal	5942865
CIELab	64.19, -44.17, 39.62
CIELCh	64, 59.336, 138.107
Yxy	33.0398, 0.3113, 0.4936
Android (android.graphics.Color)	4284132945 (0xFF5AAE51)
YUV	138.2820, -28.2400, -42.3433
Hunter-Lab	57.4803, -35.8808, 26.7613

Details

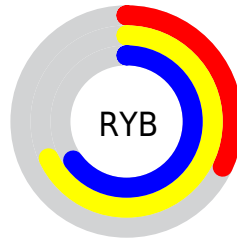
The XYZ color **20.8377, 33.0398, 13.0636** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **26.1010, 16.9412, 41.9404**, and the grayscale version is **24.3760, 25.6455, 27.9279**.

A 20% lighter version of the original color is **44.1387, 64.2793, 31.9106**, and **7.6201, 14.0497, 3.6066** is the 20% darker color. If you saturate the color by 10%, you get **18.8968, 32.1062, 9.9925**, and if you desaturate by 10%, it is **23.2707, 34.2097, 17.0319**.

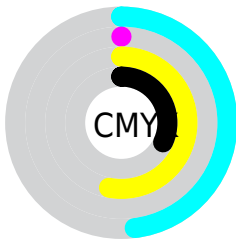
Distribution



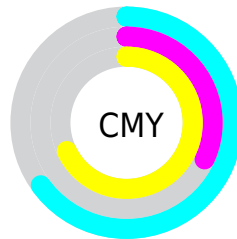
- Red (35%)
- Green (68%)
- Blue (32%)



- Red (32%)
- Yellow (68%)
- Blue (65%)



- Cyan (48%)
- Magenta (0%)
- Yellow (53%)
- Black (32%)



- Cyan (65%)
- Magenta (32%)
- Yellow (68%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.8377, 33.0398, 13.0636 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 20.8377, 33.0398, 13.0636 by changing the saturation by 10% instead.

■ 20.8377, 33.0398,
13.0636

■ 20.8377, 33.0398,
13.0636

249.1628,
315.8290, 222.5470

■ 13.1172, 22.1569,
7.3411

■ 44.3106, 64.4377,
32.1109

■ 7.5869, 13.9723,
3.5947

■ 60.7937, 85.7214,
46.2727

■ 3.8813, 8.1014,
1.4057

■ 80.9283, 111.2410,
64.0848

■ 1.6352, 4.1599,
0.1462

■ 105.0799,
141.3807, 85.9656

■ 0.4152, 1.7634,
0.0000

■ 133.6138,
176.5250, 112.3336

■ 0.0000, 0.4642,
0.0000

166.8954,

■ 0.0000, 0.0000,

217.0582, 143.6075

0.0000

205.2899,
263.3647, 180.2058

■ 20.8377, 33.0398,
13.0636

■ 20.8377, 33.0398,
13.0636

■ 18.8968, 32.1062,
9.9925

■ 23.2707, 34.2097,
17.0319

■ 17.4119, 31.3889,
7.7466

■ 26.2238, 35.6261,
21.9574

■ 16.3460, 30.8715,
6.2468

■ 29.7257, 37.3036,
27.8976

■ 15.6550, 30.5333,
5.3973

■ 33.8024, 39.2543,
34.9050

■ 15.3649, 30.3910,
5.0562

■ 38.4781, 41.4898,
43.0281

■ 43.7758, 44.0209,
52.3127

■ 49.7171, 46.8577,
62.8020

■ 56.3227, 50.0101,
74.5370

■ 63.6123, 53.4874,
87.5566

Harmonies

Analogous

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



26.6406, 33.0398, 7.4676



20.8377, 33.0398, 13.0636



18.0877, 33.0398, 27.2489

Triad

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



20.8377, 33.0398, 13.0636



28.1870, 33.0398, 102.9929



49.4190, 33.0398, 23.4148

Complementary

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



20.8377, 33.0398, 13.0636



26.1010, 16.9412, 41.9404

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.



50.0354, 33.0398, 46.3890



20.8377, 33.0398, 13.0636



36.7024, 33.0398, 100.3952

Square

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



20.8377, 33.0398, 13.0636



21.7950, 33.0398, 82.6386



45.0456, 33.0398, 76.6111



43.4873, 33.0398, 11.3387

Rectangle

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



20.8377, 33.0398, 13.0636



17.9596, 33.0398, 42.9094



45.0456, 33.0398, 76.6111



50.2890, 33.0398, 29.8306

Sweetspot

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



20.8385, 33.0412, 13.0643



59.1066, 70.1459, 59.5059



32.3432, 36.3965, 13.1056



12.8010, 15.4299, 12.6473



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

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



20.8385, 33.0412, 13.0643



33.7653, 57.9891, 17.3367



21.8123, 33.3356, 22.4876



7.9737, 8.9750, 8.5255



11.1682, 22.0545, 3.6683



0.3332, 0.6251, 0.1031

Inverse Universe

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



26.1010, 16.9412, 41.9404



44.2636, 25.6637, 75.2575



24.9001, 16.6848, 25.5010



8.2596, 8.1081, 10.0824



15.6773, 7.4418, 29.6546



0.4577, 0.2182, 0.8260

Previews

White Background



This preview shows how the XYZ color 20.8377, 33.0398, 13.0636 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 20.8377, 33.0398, 13.0636 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 20.8377, 33.0398, 13.0636

Background



This preview shows how black text looks on a background with the XYZ color 20.8377, 33.0398, 13.0636.



This preview shows how white text looks on a background with the XYZ color 20.8377, 33.0398,

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

20.8377, 33.0398, 13.0636

Protanopia

29.7859, 32.6086, 11.3808

Deuteranopia

33.0904, 32.5758, 13.7762



Tritanopia

27.5179, 32.9765, 46.5097

Trichromacy



Original Color

20.8377, 33.0398, 13.0636



Protanomaly

25.4152, 32.1273, 11.8828



Deuteranomaly

26.6456, 31.4452, 13.2595



Tritanomaly

24.3646, 32.7830, 30.6348

Monochromacy



Original Color

20.8377, 33.0398, 13.0636



Achromatopsia

24.1572, 25.4152, 27.6772



Achromatomaly

22.1627, 27.4825, 20.9662

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.8377, 33.0398, 13.0636 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(90, 174, 81)` looks like.

```
.text, #text, p{  
    color:rgb(90, 174, 81)  
}
```

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(90, 174, 81) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 174, 81) }
```

Border

The CSS property to change the border of an element to XYZ 20.8377, 33.0398, 13.0636 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(90, 174, 81) }
```


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

```
.border{ border-color:rgb(90, 174, 81) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 174, 81)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 174, 81); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 174, 81);  
box-shadow:4px 4px 4px 4px rgb(90, 174,  
81) }
```

Background

The CSS property to change the background color of an element to XYZ 20.8377, 33.0398, 13.0636 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 174, 81) }
```

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

```
.background{ background-color: rgb(90, 174,  
81) }
```

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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