

Converting Colors

XYZ(19.7759, 37.5698, 11.8598)

Have a look what the booklet for
XYZ(19.7759, 37.5698, 11.8598)
contains.

XYZ(19.8710, 37.7768, 11.8746)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(19.8710, 37.7768,
11.8746)**

Conversions

Conversions Part 1

Format	Color
Hex	0DBF45
RGB	13, 191, 69
RGB Percent	5%, 75%, 27%
CMY	0.9490, 0.2510, 0.7294
CMYK	0.93, 0.00, 0.64, 0.25
HSL	139°, 87%, 40%
HSV	139°, 93%, 75%
XYZ	19.8710, 37.7768, 11.8746
YIQ	123.8700, -66.9260, -75.6780

Conversions

Conversions Part 2

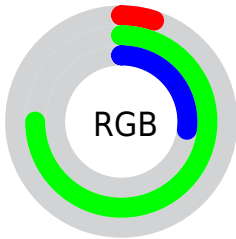
Format	Color
RYB	13, 148, 191
Decimal	900933
CIELab	67.86, -64.69, 49.02
CIELCh	68, 81.170, 142.845
Yxy	37.7768, 0.2858, 0.5434
Android (android.graphics.Color)	4279091013 (0xFF0DBF45)
YUV	123.8700, -27.0509, -97.2330
Hunter-Lab	61.4628, -49.8507, 31.5692

Details

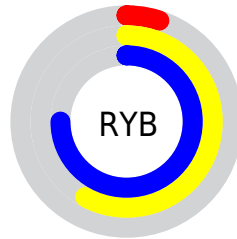
The XYZ color **19.8710, 37.7768, 11.8746** is a dark color, and the websafe version is hex **00CC66**. A complement of this color would be **26.0044, 13.1144, 24.0854**, and the grayscale version is **19.2196, 20.2205, 22.0201**.

A 20% lighter version of the original color is **42.8680, 71.9813, 30.0468**, and **8.8535, 17.6280, 3.1944** is the 20% darker color. If you saturate the color by 10%, you get **19.4494, 37.5902, 10.5176**, and if you desaturate by 10%, it is **20.7572, 38.1825, 14.2777**.

Distribution



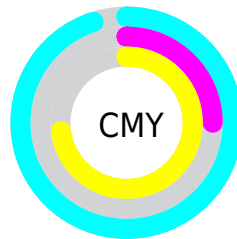
- Red (5%)
- Green (75%)
- Blue (27%)



- Red (5%)
- Yellow (58%)
- Blue (75%)



- Cyan (93%)
- Magenta (0%)
- Yellow (64%)
- Black (25%)



- Cyan (95%)
- Magenta (25%)
- Yellow (73%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 19.8710, 37.7768, 11.8746 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 19.8710, 37.7768, 11.8746 by changing the saturation by 10% instead.

■ 19.8710, 37.7768,
11.8746

■ 19.8710, 37.7768,
11.8746

244.0628,
336.6615, 214.5217

■ 12.4090, 25.8095,
6.5368

■ 42.7064, 71.7659,
29.9275

■ 7.0971, 16.6812,
3.1002

■ 58.8105, 94.5565,
43.4797

■ 3.5697, 10.0074,
1.1460

■ 78.5261, 121.7236,
60.6071

■ 1.4617, 5.4039,
0.0000

■ 102.2184,
153.6517, 81.7283

■ 0.2996, 2.4861,
0.0000

■ 130.2529,
190.7252, 107.2619

■ 0.0000, 0.8697,
0.0000

162.9949,

■ 0.0000, 0.0000,

233.3284, 137.6262

0.0000

200.8098,
281.8457, 173.2400

■ 19.8710, 37.7768,
11.8746

■ 19.8710, 37.7768,
11.8746

■ 19.4494, 37.5902,
10.5176

■ 20.7572, 38.1825,
14.2777

■ 22.0814, 38.8019,
17.1968

■ 23.9013, 39.6653,
20.6617

■ 26.2647, 40.7968,
24.6987

■ 29.2135, 42.2174,
29.3326

■ 32.7852, 43.9461,
34.5865

■ 37.0141, 46.0001,
40.4823

■ 41.9322, 48.3953,
47.0410

■ 47.5690, 51.1468,
54.2824

Harmonies

Analogous

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



27.3092, 37.7768, 4.6236



19.8710, 37.7768, 11.8746



16.8549, 37.7768, 33.0928

Triad

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



19.8710, 37.7768, 11.8746



32.9762, 37.7768, 155.2729



63.1301, 37.7768, 19.6726

Complementary

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



19.8710, 37.7768, 11.8746



26.0044, 13.1144, 24.0854

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.



65.6527, 37.7768, 50.3790



19.8710, 37.7768, 11.8746



46.1398, 37.7768, 143.7057

Square

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



19.8710, 37.7768, 11.8746



23.1876, 37.7768, 124.7393



58.8419, 37.7768, 98.7668



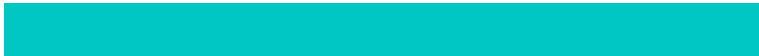
52.5871, 37.7768, 6.9387

Rectangle

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



19.8710, 37.7768, 11.8746



17.1080, 37.7768, 58.5363



58.8419, 37.7768, 98.7668



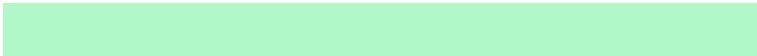
65.0312, 37.7768, 27.5733

Sweetspot

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



19.8719, 37.7783, 11.8755



62.1604, 80.3762, 66.8079



29.1202, 42.6617, 7.0808



12.9513, 17.3109, 13.6845



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138

Same Dimension

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



19.8719, 37.7783, 11.8755



34.7364, 67.2832, 18.3289



24.7480, 39.7288, 37.5528



9.5291, 10.6978, 10.7698



12.8140, 24.7159, 7.0832



0.5323, 0.9803, 0.4376

Inverse Universe

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



26.0044, 13.1144, 24.0854



45.6932, 22.7226, 39.7783



22.1768, 11.5833, 3.9295



9.7987, 9.6438, 11.3291



16.8464, 8.3697, 15.0166



0.6882, 0.3392, 0.7374

Previews

White Background



This preview shows how the XYZ color 19.8710, 37.7768, 11.8746 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 19.8710, 37.7768, 11.8746 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

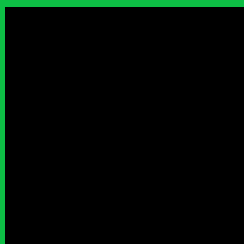
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 19.8710, 37.7768, 11.8746

Background



This preview shows how black text looks on a background with the XYZ color 19.8710, 37.7768, 11.8746.



This preview shows how white text looks on a background with the XYZ color 19.8710, 37.7768,

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

19.8710, 37.7768, 11.8746

Protanopia

33.6462, 36.9551, 9.7746

Deuteranopia

37.6936, 36.9127, 12.7276



Tritanopia

28.8063, 37.6682, 56.2045

Trichromacy



Original Color

19.8710, 37.7768, 11.8746



Protanomaly

23.9466, 34.7072, 10.2875



Deuteranomaly

25.1653, 33.8843, 12.0514



Tritanomaly

23.8001, 36.7894, 33.8636

Monochromacy



Original Color

19.8710, 37.7768, 11.8746



Achromatopsia

19.1579, 20.1556, 21.9495



Achromatomaly

16.7448, 24.0641, 16.8590

CSS Examples

Text

The CSS property to change the color of the text to XYZ 19.8710, 37.7768, 11.8746 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(13, 191, 69)` looks like.

```
.text, #text, p{  
    color:rgb(13, 191, 69)  
}
```

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(13, 191, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(13, 191, 69) }
```

Border

The CSS property to change the border of an element to XYZ 19.8710, 37.7768, 11.8746 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(13, 191, 69) }
```


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

```
.border{ border-color:rgb(13, 191, 69) }
```

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

Here you see how a box with a 4 pixel rgb(13, 191, 69) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(13, 191, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(13, 191, 69);  
box-shadow:4px 4px 4px 4px rgb(13, 191,  
69) }
```

Background

The CSS property to change the background color of an element to XYZ 19.8710, 37.7768, 11.8746 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(13, 191, 69) }
```

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

```
.background{ background-color: rgb(13, 191,  
69) }
```

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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