

# Converting Colors

XYZ(19.6336, 20.0741, 3.6505)

Have a look what the booklet for  
XYZ(19.6336, 20.0741, 3.6505)  
contains.

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# Color

**XYZ(19.6336, 20.0741,  
3.6505)**

# Conversions

## Conversions Part 1

Format	Color
Hex	977817
RGB	151, 120, 23
RGB Percent	59%, 47%, 9%
CMY	0.4078, 0.5294, 0.9098
CMYK	0.00, 0.21, 0.85, 0.41
HSL	45°, 74%, 34%
HSV	45°, 85%, 59%
XYZ	19.6336, 20.0741, 3.6505
YIQ	118.2110, 49.6130, -23.5950

# Conversions

## Conversions Part 2

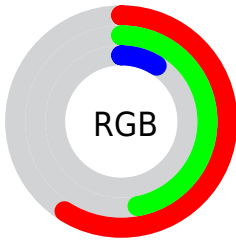
<b>Format</b>	<b>Color</b>
<b>RYB</b>	64, 151, 23
Decimal	9926679
CIELab	51.92, 2.81, 52.61
CIELCh	52, 52.689, 86.948
Yxy	20.0741, 0.4528, 0.4630
Android (android.graphics.Color)	4288116759 (0xFF977817)
YUV	118.2110, -46.9390, 28.7560
Hunter-Lab	44.8041, -0.1868, 26.5321

# Details

The XYZ color **19.6336, 20.0741, 3.6505** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **7.2585, 5.0548, 29.8710**, and the grayscale version is **17.4184, 18.3255, 19.9565**.

A 20% lighter version of the original color is **42.3866, 43.5962, 13.2021**, and **7.1412, 7.1215, 0.9982** is the 20% darker color. If you saturate the color by 10%, you get **19.0912, 19.1677, 2.9205**, and if you desaturate by 10%, it is **20.2791, 21.0503, 4.8368**.

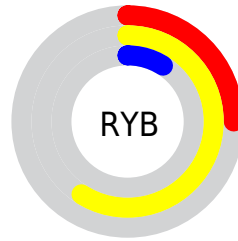
# Distribution



Red (59%)

Green (47%)

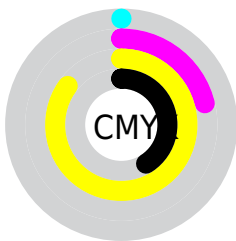
Blue (9%)



Red (25%)

Yellow (59%)

Blue (9%)

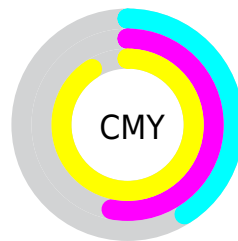


Cyan (0%)

Magenta (21%)

Yellow (85%)

Black (41%)



Cyan (41%)

Magenta (53%)

Yellow (91%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.6336, 20.0741, 3.6505 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 19.6336, 20.0741, 3.6505 by changing the saturation by 10% instead.



■ 19.6336, 20.0741,  
3.6505

■ 19.6336, 20.0741,  
3.6505

242.7962,  
252.3160, 144.2576

■ 12.2357, 12.4489,  
1.4356

■ 42.3107, 43.5414,  
13.1953

■ 6.9778, 7.0502,  
0.1693

■ 58.3206, 60.1523,  
21.3624

■ 3.4944, 3.4935,  
0.0000

■ 77.9318, 80.5272,  
32.3506

■ 1.4203, 1.3945,  
0.0000

■ 101.5098,  
105.0505, 46.5785

■ 0.2706, 0.2127,  
0.0000

■ 129.4199,  
134.1067, 64.4646

■ 0.0000, 0.0000,  
0.0000

■ 162.0274,

168.0800, 86.4274

199.6977,  
207.3550, 112.8856

19.6336, 20.0741,  
3.6505

19.6336, 20.0741,  
3.6505

19.0912, 19.1677,  
2.9205

20.2791, 21.0503,  
4.8368

18.8287, 18.7119,  
2.6194

21.0401, 22.0990,  
6.5494

21.9279, 23.2259,  
8.8450

22.9519, 24.4351,  
11.7724

24.1206, 25.7301,  
15.3756

■ 25.4418, 27.1144,  
19.6943

■ 26.9225, 28.5911,  
24.7655

■ 28.5696, 30.1631,  
30.6233

■ 30.3891, 31.8333,  
37.2999

# Harmonies

## Analogous

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



25.2679, 20.0741, 5.2821



19.6336, 20.0741, 3.6505



14.7818, 20.0741, 4.6957

# Triad

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



19.6336, 20.0741, 3.6505



11.2913, 20.0741, 38.1389



29.0824, 20.0741, 42.2199

# Complementary

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



19.6336, 20.0741, 3.6505



7.2585, 5.0548, 29.8710

# 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.



24.1394, 20.0741, 60.1152



19.6336, 20.0741, 3.6505



13.9948, 20.0741, 57.0840

# Square

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



19.6336, 20.0741, 3.6505



10.5309, 20.0741, 20.3238



18.5366, 20.0741, 66.5376



31.3263, 20.0741, 23.4661



# Rectangle

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



19.6336, 20.0741, 3.6505



12.4987, 20.0741, 7.2696



18.5366, 20.0741, 66.5376



27.6409, 20.0741, 48.8175

# Sweetspot

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



19.6341, 20.0751, 3.6509



45.3800, 48.3713, 34.6567



13.7585, 7.4681, 4.3311



10.1350, 10.8088, 7.2830



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178



# Same Dimension

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



19.6341, 20.0751, 3.6509



33.5723, 33.2151, 4.6417



18.8290, 26.1169, 4.8595



6.5821, 6.9693, 6.6041



16.0411, 15.9646, 2.2360



0.2672, 0.2934, 0.0426



# Inverse Universe

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



7.2585, 5.0548, 29.8710



11.0423, 6.0786, 53.0250



7.4681, 3.6596, 29.5906



5.9999, 6.2572, 7.8205



5.3230, 3.0428, 25.2145

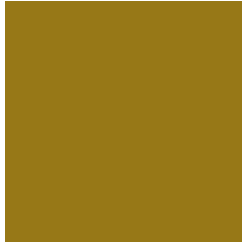


0.1046, 0.0954, 0.3853



# Previews

## White Background



This preview shows how the XYZ color 19.6336, 20.0741, 3.6505 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

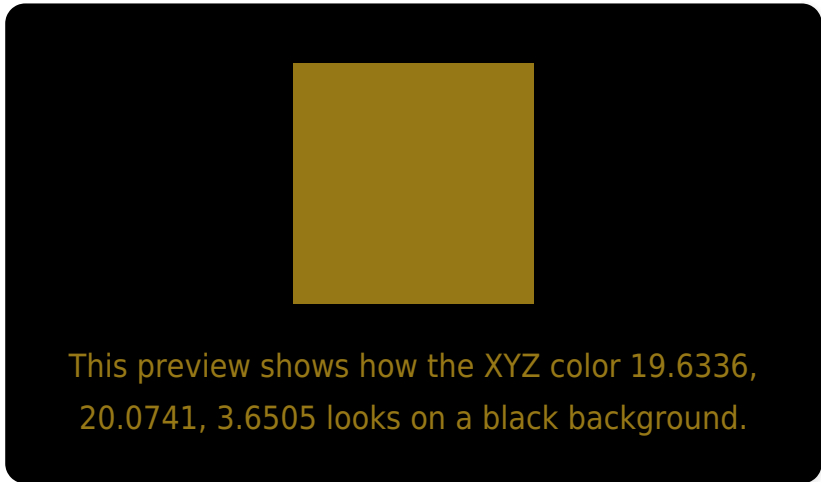
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# 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 × Fail

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

**XYZ 19.6336, 20.0741, 3.6505**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.6336, 20.0741, 3.6505.



This preview shows how white text looks on a background with the XYZ color 19.6336, 20.0741,



# 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

19.6336, 20.0741, 3.6505

### Protanopia

18.1877, 20.0567, 3.7769

### Deuteranopia

20.3536, 20.0907, 3.6693



## Tritanopia

23.0890, 20.1125, 20.4345

# Trichromacy



## Original Color

19.6336, 20.0741, 3.6505

## Protanomaly

18.7494, 20.1612, 3.7674

## Deuteranomaly

20.0881, 20.1296, 3.6908

## Tritanomaly

21.2880, 19.8859, 11.3107

# Monochromacy



## Original Color

19.6336, 20.0741, 3.6505

## Achromatopsia

17.2197, 18.1164, 19.7288

## Achromatomaly

17.3641, 18.5640, 10.8516

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.6336, 20.0741, 3.6505 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(151, 120, 23)` looks like.

```
.text, #text, p{  
    color:rgb(151, 120, 23)  
}
```

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(151, 120, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(151, 120, 23) }
```

## Border

The CSS property to change the border of an element to XYZ 19.6336, 20.0741, 3.6505 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(151, 120, 23) }
```



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

```
.border{ border-color:rgb(151, 120, 23) }
```

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

Here you see how a box with a 4 pixel `rgb(151, 120, 23)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(151, 120, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(151, 120, 23);  
box-shadow:4px 4px 4px 4px rgb(151, 120,  
23) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.6336, 20.0741, 3.6505 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(151, 120, 23) }
```

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

```
.background{ background-color: rgb(151,  
120, 23) }
```

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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