

# Converting Colors

XYZ(31.4039, 39.2988, 20.9716)

Have a look what the booklet for  
XYZ(31.4039, 39.2988, 20.9716)  
contains.

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# Color

**XYZ(31.3539, 39.1713,  
20.9472)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	97B16F
RGB	151, 177, 111
RGB Percent	59%, 69%, 44%
CMY	0.4078, 0.3059, 0.5647
CMYK	0.15, 0.00, 0.37, 0.31
HSL	84°, 30%, 56%
HSV	84°, 37%, 69%
XYZ	31.3539, 39.1713, 20.9472
YIQ	161.7020, 5.6900, -26.0380

# Conversions

## Conversions Part 2

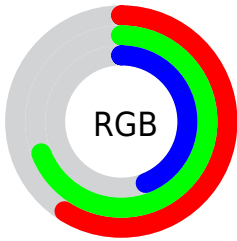
<b>Format</b>	<b>Color</b>
<b>RYB</b>	111, 177, 137
Decimal	9941359
CIELab	68.88, -20.36, 30.88
CIElCh	69, 36.989, 123.401
Yxy	39.1713, 0.3428, 0.4282
Android (android.graphics.Color)	4288131439 (0xFF97B16F)
YUV	161.7020, -24.9961, -9.3857
Hunter-Lab	62.5870, -20.1049, 23.9671

# Details

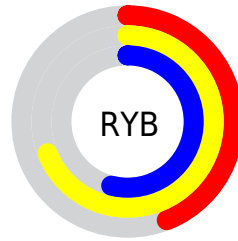
The XYZ color **31.3539, 39.1713, 20.9472** is a dark color, and the websafe version is hex **999966**. A complement of this color would be **23.9383, 19.8626, 44.1694**, and the grayscale version is **34.3154, 36.1025, 39.3156**.

A 20% lighter version of the original color is **61.2034, 74.0440, 45.7165**, and **13.2227, 17.4158, 7.2221** is the 20% darker color. If you saturate the color by 10%, you get **29.2184, 38.1733, 16.2543**, and if you desaturate by 10%, it is **33.7611, 40.2895, 26.6625**.

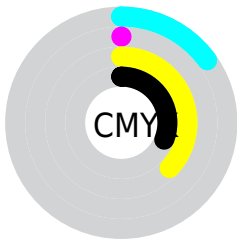
# Distribution



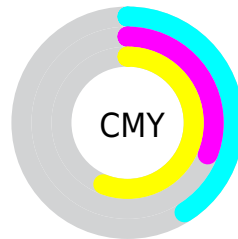
- Red (59%)
- Green (69%)
- Blue (44%)



- Red (44%)
- Yellow (69%)
- Blue (54%)



- Cyan (15%)
- Magenta (0%)
- Yellow (37%)
- Black (31%)




- Cyan (41%)
- Magenta (31%)
- Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.3539, 39.1713, 20.9472 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 31.3539, 39.1713, 20.9472 by changing the saturation by 10% instead.





 31.3539, 39.1713,  
20.9472


 31.3539, 39.1713,  
20.9472


299.9633,  
342.6182, 269.7696


 21.0216, 26.8930,  
12.8945


 61.1689, 73.8999,  
45.8793


 13.2524, 17.4929,  
7.2261


 81.3823, 97.1191,  
63.5958

 7.6808, 10.5865,  
3.5233


 105.6202,  
124.7539, 85.3707

 3.9414, 5.7895,  
1.3677

 134.2478,  
157.1890, 111.6225

 1.6691, 2.7175,  
0.1163

167.6306,  
194.8085, 142.7697

 0.4368, 0.9861,  
0.0000

206.1338,

 0.0000, 0.0000,

237.9970, 179.2310

0.0000

250.1230,  
287.1387, 221.4247

■ 31.3539, 39.1713,  
20.9472

■ 31.3539, 39.1713,  
20.9472

■ 29.2184, 38.1733,  
16.2543

■ 33.7611, 40.2895,  
26.6625

■ 27.3389, 37.2851,  
12.5208

■ 36.4488, 41.5275,  
33.4532

■ 25.7023, 36.5025,  
9.6808


■ 39.4291, 42.8918,  
41.3716


■ 24.2929, 35.8193,  
7.6588


■ 42.7123, 44.3864,  
50.4659


■ 23.0927, 35.2279,  
6.3671


■ 46.3082, 46.0156,  
60.7813


 22.0754, 34.7177,  
5.6755

 50.2261, 47.7831,  
72.3610

 21.8186, 34.5883,  
5.5263

 54.4749, 49.6927,  
85.2457

 59.0632, 51.7478,  
99.4745

 61.4355, 52.9265,  
101.5856

# Harmonies

## Analogous

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



36.5651, 39.1713, 17.8266



31.3539, 39.1713, 20.9472



28.0187, 39.1713, 29.7470

# Triad

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



31.3539, 39.1713, 20.9472



32.4003, 39.1713, 78.5992



49.6804, 39.1713, 40.7606

# Complementary

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



31.3539, 39.1713, 20.9472



23.9383, 19.8626, 44.1694

# 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.



48.2694, 39.1713, 58.8324



31.3539, 39.1713, 20.9472



37.9052, 39.1713, 83.7679

# Square

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



31.3539, 39.1713, 20.9472



28.5767, 39.1713, 63.0479



43.8005, 39.1713, 75.7499



47.4771, 39.1713, 27.2089



# Rectangle

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



31.3539, 39.1713, 20.9472



27.1019, 39.1713, 39.0413



43.8005, 39.1713, 75.7499



49.6139, 39.1713, 46.4764

# Sweetspot

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



31.3549, 39.1730, 20.9480



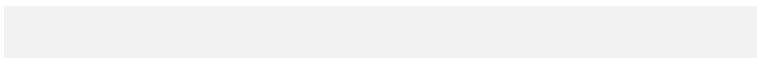
68.4679, 75.8337, 68.3160



29.8486, 28.1891, 18.9073



14.6854, 16.3645, 14.3988



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.



31.3549, 39.1730, 20.9480



52.8778, 68.6226, 30.2734



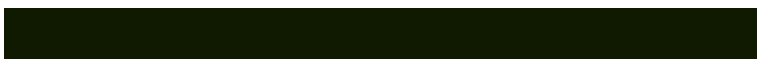
26.1592, 36.4946, 20.7049



8.8665, 9.7363, 9.0645



15.8772, 25.0951, 4.0070



0.5629, 0.8222, 0.1290



# Inverse Universe

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



23.9383, 19.8626, 44.1694



37.6206, 28.8705, 78.0850



30.0483, 23.0125, 44.4553



8.3482, 8.3880, 10.6854



7.6302, 3.2693, 30.3659



0.3067, 0.1372, 0.9586



# Previews

## White Background



This preview shows how the XYZ color 31.3539, 39.1713, 20.9472 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

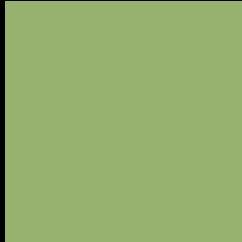
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.3539, 39.1713, 20.9472 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

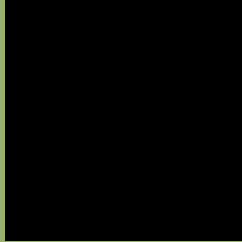
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 31.3539, 39.1713, 20.9472**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.3539, 39.1713, 20.9472.



This preview shows how white text looks on a background with the XYZ color 31.3539, 39.1713,



# 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

31.3539, 39.1713, 20.9472

### Protanopia

36.1849, 39.1341, 19.5564

### Deuteranopia

39.4847, 38.6588, 21.6005



## **Tritanopia**

37.1441, 38.9597, 49.8182

# Trichromacy



## Original Color

31.3539, 39.1713, 20.9472

## Protanomaly

34.0643, 38.8665, 19.8940

## Deuteranomaly

35.9649, 38.4324, 21.4422

## Tritanomaly

34.4683, 38.6942, 37.1045

# Monochromacy



## Original Color

31.3539, 39.1713, 20.9472

## Achromatopsia

34.3422, 36.1307, 39.3463

## Achromatomaly

32.8772, 36.8897, 31.3742

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.3539, 39.1713, 20.9472 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, 177, 111)` looks like.

```
.text, #text, p{  
    color:rgb(151, 177, 111)  
}
```

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, 177, 111) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(151, 177, 111) }
```

## Border

The CSS property to change the border of an element to XYZ 31.3539, 39.1713, 20.9472 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, 177, 111) }
```



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

```
.border{ border-color:rgb(151, 177, 111) }
```

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

Here you see how a box with a 4 pixel `rgb(151, 177, 111)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(151, 177, 111); -webkit-box-  
shadow:4px 4px 4px 4px rgb(151, 177, 111);  
box-shadow:4px 4px 4px 4px rgb(151, 177,  
111) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.3539, 39.1713, 20.9472 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(151, 177, 111) }
```

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

```
.background{ background-color: rgb(151,  
177, 111) }
```

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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