

Converting Colors

XYZ(2.9752, 3.2309, 3.2019)

Have a look what the booklet for
XYZ(2.9752, 3.2309, 3.2019)
contains.

XYZ(2.9635, 3.2259, 3.1558)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

XYZ(2.9635, 3.2259, 3.1558)

Conversions

Conversions Part 1

Format	Color
Hex	31332F
RGB	49, 51, 47
RGB Percent	19%, 20%, 18%
CMY	0.8078, 0.8000, 0.8157
CMYK	0.04, 0.00, 0.08, 0.80
HSL	90°, 4%, 19%
HSV	90°, 8%, 20%
XYZ	2.9635, 3.2259, 3.1558
YIQ	49.9460, 0.0920, -1.6680

Conversions

Conversions Part 2

Format	Color
R_YB	47, 51, 49
Decimal	3224367
CIE Lab	20.93, -1.80, 2.23
CIE LCh	21, 2.865, 128.818
Yxy	3.2259, 0.3171, 0.3452
Android (android.graphics.Color)	4281414447 (0xFF31332F)
YUV	49.9460, -1.4524, -0.8296
Hunter-Lab	17.9608, -1.9792, 2.1550

Details

The XYZ color **2.9635, 3.2259, 3.1558** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **2.8810, 2.9252, 3.5450**, and the grayscale version is **3.0273, 3.1850, 3.4684**.

A 20% lighter version of the original color is **10.9698, 11.7726, 12.0501**, and **0.0668, 0.1150, 0.0187** is the 20% darker color. If you saturate the color by 10%, you get **2.7469, 3.1255, 2.6397**, and if you desaturate by 10%, it is **3.1993, 3.3350, 3.7358**.

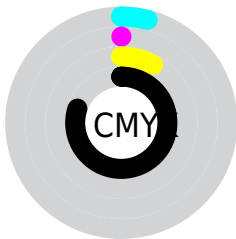
Distribution



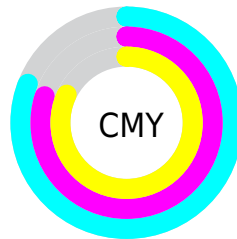
- Red (19%)
- Green (20%)
- Blue (18%)



- Red (18%)
- Yellow (20%)
- Blue (19%)



- Cyan (4%)
- Magenta (0%)
- Yellow (8%)
- Black (80%)



- Cyan (81%)
- Magenta (80%)
- Yellow (82%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 2.9635, 3.2259, 3.1558 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 2.9635, 3.2259, 3.1558 by changing the saturation by 10% instead.

■ 2.9635, 3.2259,
3.1558

■ 2.9635, 3.2259,
3.1558

123.2936,
131.0044, 138.3209

■ 1.1345, 1.2508,
1.1747

■ 10.9886, 11.8189,
12.0105

■ 0.0537, 0.1026,
0.0000

■ 17.9155, 19.2055,
19.7213

■ 0.0000, 0.0000,
0.0000

■ 27.2723, 29.1648,
30.1790

■ 39.4244, 42.0811,
43.8022

■ 54.7373, 58.3388,
61.0094

■ 73.5762, 78.3223,

82.2193

96.3065, 102.4161,
107.8502

■ 2.9635, 3.2259,
3.1558

■ 2.9635, 3.2259,
3.1558

■ 2.7469, 3.1255,
2.6397

■ 3.1993, 3.3350,
3.7358

■ 2.5488, 3.0332,
2.1850

■ 3.4545, 3.4525,
4.3816

■ 2.3685, 2.9489,
1.7896

■ 3.7297, 3.5789,
5.0951

■ 2.2057, 2.8723,
1.4509

■ 4.0255, 3.7143,
5.8783

■ 2.0596, 2.8031,
1.1665

■ 4.3421, 3.8590,
6.7331

■ 1.9295, 2.7411,
0.9334

■ 4.6802, 4.0130,
7.6611

■ 1.8148, 2.6859,
0.7485

■ 5.0400, 4.1767,
8.6640

■ 1.7125, 2.6364,
0.5966

■ 5.4220, 4.3501,
9.7436

■ 1.6163, 2.5901,
0.4463

■ 5.8266, 4.5335,
10.9013

Harmonies

Analogous

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



3.0408, 3.2259, 3.0644



2.9635, 3.2259, 3.1558



2.9143, 3.2259, 3.3439

Triad

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



2.9635, 3.2259, 3.1558



3.0067, 3.2259, 3.9734



3.2327, 3.2259, 3.4403

Complementary

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



2.9635, 3.2259, 3.1558



2.8810, 2.9252, 3.5450

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.



3.2231, 3.2259, 3.6866



2.9635, 3.2259, 3.1558



3.0916, 3.2259, 4.0022

Square

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



2.9635, 3.2259, 3.1558



2.9389, 3.2259, 3.8182



3.1711, 3.2259, 3.8950



3.1969, 3.2259, 3.2235

Rectangle

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



2.9635, 3.2259, 3.1558



2.9035, 3.2259, 3.5027



3.1711, 3.2259, 3.8950



3.2347, 3.2259, 3.5223

Sweetspot

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



2.9636, 3.2260, 3.1559



5.1415, 5.4586, 5.7797



2.9768, 3.1059, 3.1320



1.4368, 1.5233, 1.6198



33.7135, 35.4692, 38.6260



1.4567, 1.5325, 1.6689

Same Dimension

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



2.9636, 3.2260, 3.1559



4.8601, 5.3284, 5.0936



2.8693, 3.1775, 3.1515



0.8946, 0.9754, 0.9491



4.6562, 7.7344, 1.2475



30.9596, 52.6989, 8.5402

Inverse Universe

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



2.8810, 2.9252, 3.5450



4.6960, 4.7310, 5.8664



2.9795, 2.9760, 3.5496



0.8684, 0.8802, 1.0724



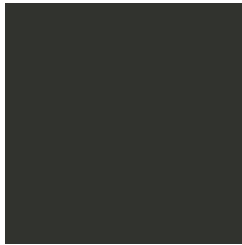
2.8822, 1.2763, 9.6008



18.7409, 8.2182, 66.0738

Previews

White Background



This preview shows how the XYZ color 2.9635, 3.2259, 3.1558 looks on a white background.

Color Contrast Check

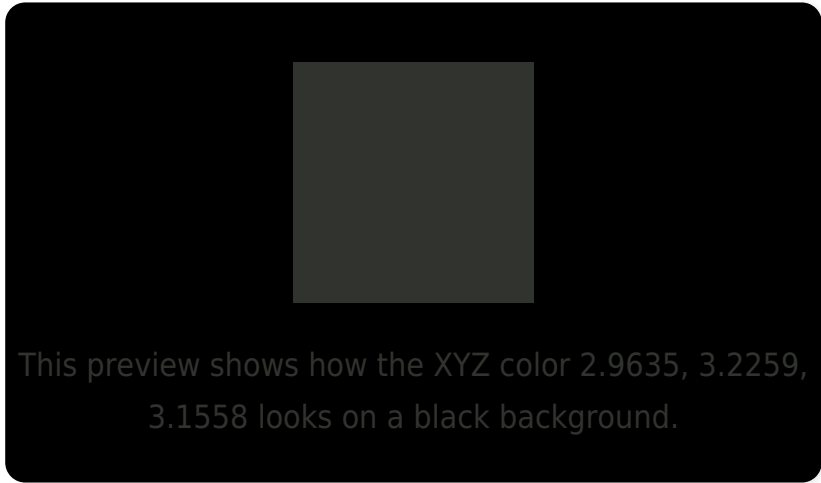
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

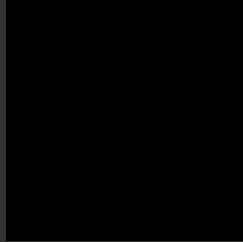
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

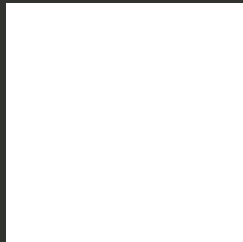
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 2.9635, 3.2259, 3.1558

Background



This preview shows how black text looks on a background with the XYZ color 2.9635, 3.2259, 3.1558.

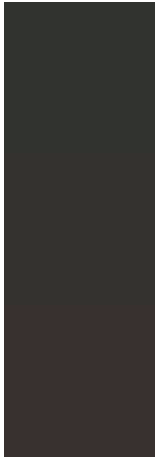


This preview shows how white text looks on a background with the XYZ color 2.9635, 3.2259, 3.1558.

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

2.9635, 3.2259, 3.1558

Protanopia

3.0699, 3.2165, 3.1484

Deuteranopia

3.2423, 3.2426, 3.1443



Tritanopia

3.1218, 3.2257, 3.9481

Trichromacy



Original Color

2.9635, 3.2259, 3.1558

Protanomaly

3.0189, 3.1902, 3.1460

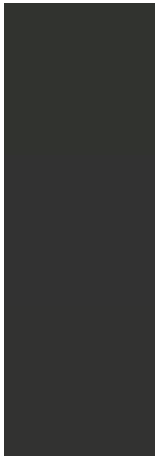
Deuteranomaly

3.1219, 3.2433, 3.1508

Tritanomaly

3.0535, 3.1983, 3.5884

Monochromacy



Original Color

2.9635, 3.2259, 3.1558

Achromatopsia

3.0317, 3.1896, 3.4735

Achromatomaly

3.0104, 3.1811, 3.3611

CSS Examples

Text

The CSS property to change the color of the text to XYZ 2.9635, 3.2259, 3.1558 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(49, 51, 47)` looks like.

```
.text, #text, p{  
    color:rgb(49, 51, 47)  
}
```

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(49, 51, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 51, 47) }
```

Border

The CSS property to change the border of an element to XYZ 2.9635, 3.2259, 3.1558 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(49, 51, 47) }
```

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

```
.border{ border-color:rgb(49, 51, 47) }
```

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

Here you see how a box with a 4 pixel rgb(49, 51, 47) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 51, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 51, 47);  
box-shadow:4px 4px 4px 4px rgb(49, 51, 47)  
}
```


Background

The CSS property to change the background color of an element to XYZ 2.9635, 3.2259, 3.1558 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 51, 47) }
```

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

```
.background{ background-color: rgb(49, 51,  
47) }
```

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](#).

Hey! You found this booklet
interesting? Support Converting
Colors with the new Membership
Option!

The pro membership hides all ads, plus gives you
double the colors in the color bucket, and more
awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor