

Converting Colors

XYZ(13.3336, 9.6871, 31.9929)

Have a look what the booklet for
XYZ(13.3336, 9.6871, 31.9929)
contains.

XYZ(13.4445, 9.7843, 32.1903)	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(13.4445, 9.7843,
32.1903)**

Conversions

Conversions Part 1

Format	Color
Hex	63499B
RGB	99, 73, 155
RGB Percent	39%, 29%, 61%
CMY	0.6118, 0.7137, 0.3922
CMYK	0.36, 0.53, 0.00, 0.39
HSL	259°, 36%, 45%
HSV	259°, 53%, 61%
XYZ	13.4445, 9.7843, 32.1903
YIQ	90.1220, -10.8260, 31.0140

Conversions

Conversions Part 2

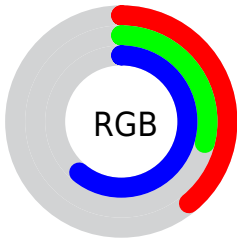
Format	Color
R_{YB}	99, 73, 155
Decimal	6506907
CIE _{Lab}	37.45, 30.12, -41.08
CIE _{LCh}	37, 50.935, 306.252
Yxy	9.7843, 0.2426, 0.1766
Android (android.graphics.Color)	4284696987 (0xFF63499B)
YUV	90.1220, 31.9849, 7.7860
Hunter-Lab	31.2799, 21.9819, -39.1198

Details

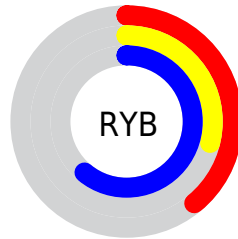
The XYZ color **13.4445, 9.7843, 32.1903** is a dark color, and the websafe version is hex **663399**. A complement of this color would be **21.9773, 28.5910, 10.6639**, and the grayscale version is **9.6781, 10.1822, 11.0884**.

A 20% lighter version of the original color is **31.7293, 25.3445, 64.1924**, and **4.0357, 2.4141, 13.0852** is the 20% darker color. If you saturate the color by 10%, you get **11.4686, 7.4378, 31.8417**, and if you desaturate by 10%, it is **15.8267, 12.7173, 32.6311**.

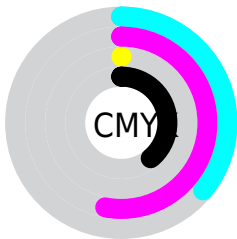
Distribution



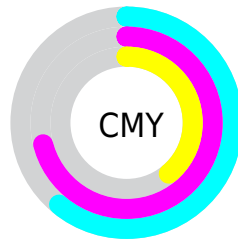
- Red (39%)
- Green (29%)
- Blue (61%)



- Red (39%)
- Yellow (29%)
- Blue (61%)



- Cyan (36%)
- Magenta (53%)
- Yellow (0%)
- Black (39%)



- Cyan (61%)
- Magenta (71%)
- Yellow (39%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.4445, 9.7843, 32.1903 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 13.4445, 9.7843, 32.1903 by changing the saturation by 10% instead.

■ 13.4445, 9.7843,
32.1903

■ 13.4445, 9.7843,
32.1903

207.3276,
189.1256, 326.5046

■ 7.8144, 5.2562,
21.2409

■ 31.6946, 25.3890,
64.2107

■ 4.0272, 2.3983,
13.1072

■ 45.0454, 37.2344,
86.1187

■ 1.7176, 0.8250,
7.3708

■ 61.7005, 52.2876,
112.5167

■ 0.4672, 0.0000,
3.6131

■ 82.0252, 70.9331,
143.8231

■ 0.0000, 0.0000,
1.4156

■ 106.3849, 93.5552,
180.4566

■ 0.0000, 0.0000,
0.1538

135.1450,

■ 0.0000, 0.0000,

120.5384, 222.8357

0.0000

168.6708,
152.2671, 271.3788

■ 13.4445, 9.7843,
32.1903

■ 13.4445, 9.7843,
32.1903

■ 11.4686, 7.4378,
31.8417

■ 15.8267, 12.7173,
32.6311

■ 9.8726, 5.6352,
31.5779

■ 18.6366, 16.2730,
33.1693

■ 8.6287, 4.3298,
31.3915

■ 21.8958, 20.4860,
33.8107

■ 7.7042, 3.4659,
31.2735

■ 25.6236, 25.3879,
34.5604

■ 7.1902, 3.0232,
31.2151

■ 29.8385, 31.0083,
35.4231

■ 34.5579, 37.3750,
36.4032

■ 39.7980, 44.5144,
37.5051

■ 45.5747, 52.4514,
38.7326

■ 51.9030, 61.2100,
40.0897

Harmonies

Analogous

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



9.9877, 9.7843, 39.6261



13.4445, 9.7843, 32.1903



16.1647, 9.7843, 19.4678

Triad

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



13.4445, 9.7843, 32.1903



12.0112, 9.7843, 1.2852



4.4173, 9.7843, 12.6952

Complementary

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



13.4445, 9.7843, 32.1903



21.9773, 28.5910, 10.6639

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.



4.7195, 9.7843, 5.0057



13.4445, 9.7843, 32.1903



8.6441, 9.7843, 0.9747

Square

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



13.4445, 9.7843, 32.1903



15.2130, 9.7843, 3.2499



6.1085, 9.7843, 1.8144



5.1599, 9.7843, 24.8846

Rectangle

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



13.4445, 9.7843, 32.1903



16.9118, 9.7843, 11.8503



6.1085, 9.7843, 1.8144



4.4030, 9.7843, 9.5400

Sweetspot

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



13.4449, 9.7847, 32.1905



43.5161, 42.3314, 61.4135



16.5190, 19.4926, 33.9023



9.5598, 9.2001, 13.8423



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

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



13.4449, 9.7847, 32.1905



20.1215, 12.8376, 56.9537



19.1088, 12.7045, 32.4556



6.0597, 6.1166, 7.7902



5.8111, 2.4468, 25.0737



0.1216, 0.0545, 0.3765

Inverse Universe

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



19.8628, 13.3189, 22.2928



33.1447, 20.0300, 35.9337



16.9519, 26.0003, 10.4287



6.3778, 6.2903, 7.3697



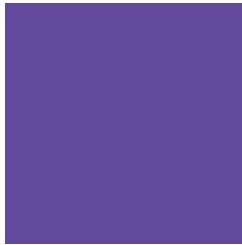
12.9586, 6.4377, 11.5727



0.2100, 0.1028, 0.2588

Previews

White Background



This preview shows how the XYZ color 13.4445, 9.7843, 32.1903 looks on a white background.

Color Contrast Check

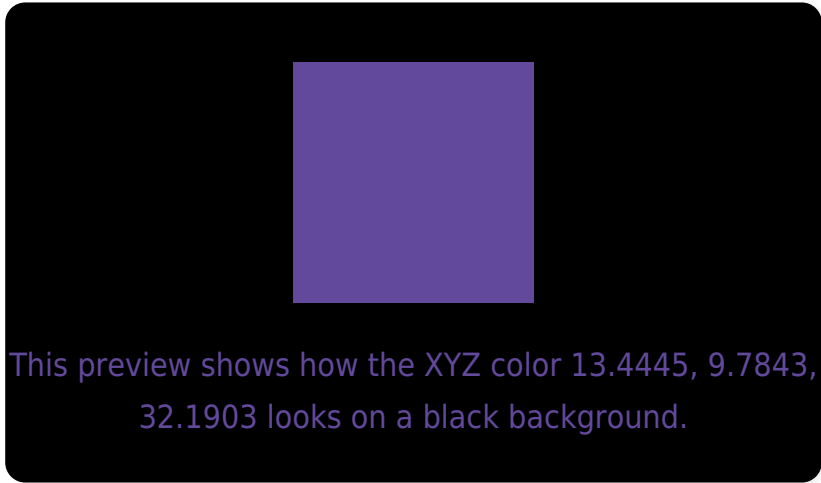
Large Text (above 18pt) WCAG AA ✓ Pass

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 13.4445, 9.7843, 32.1903

Background



This preview shows how black text looks on a background with the XYZ color 13.4445, 9.7843, 32.1903.



This preview shows how white text looks on a background with the XYZ color 13.4445, 9.7843,

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

13.4445, 9.7843, 32.1903

Protanopia

11.3919, 9.9963, 38.3749

Deuteranopia

10.0334, 9.8302, 30.6468



Tritanopia

9.3930, 9.7841, 12.2199

Trichromacy



Original Color

13.4445, 9.7843, 32.1903

Protanomaly

11.6032, 9.5860, 35.8891

Deuteranomaly

10.6852, 9.4456, 30.9658

Tritanomaly

10.6185, 9.6950, 18.1413

Monochromacy



Original Color

13.4445, 9.7843, 32.1903

Achromatopsia

9.7181, 10.2242, 11.1341

Achromatomaly

10.7218, 9.8827, 17.2620

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.4445, 9.7843, 32.1903 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(99, 73, 155)` looks like.

```
.text, #text, p{  
    color:rgb(99, 73, 155)  
}
```

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(99, 73, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 73, 155) }
```

Border

The CSS property to change the border of an element to XYZ 13.4445, 9.7843, 32.1903 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(99, 73, 155) }
```


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

```
.border{ border-color:rgb(99, 73, 155) }
```

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

Here you see how a box with a 4 pixel rgb(99, 73, 155) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 73, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 73, 155);  
box-shadow:4px 4px 4px 4px rgb(99, 73,  
155) }
```

Background

The CSS property to change the background color of an element to XYZ 13.4445, 9.7843, 32.1903 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 73, 155) }
```

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

```
.background{ background-color: rgb(99, 73,  
155) }
```

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