

Converting Colors

XYZ(12.8456, 13.6309, 16.6061)

Have a look what the booklet for
XYZ(12.8456, 13.6309, 16.6061)
contains.

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Color

**XYZ(12.9104, 13.6791,
16.7117)**

Conversions

Conversions Part 1

Format	Color
Hex	63686E
RGB	99, 104, 110
RGB Percent	39%, 41%, 43%
CMY	0.6118, 0.5921, 0.5686
CMYK	0.10, 0.05, 0.00, 0.57
HSL	213°, 5%, 41%
HSV	213°, 10%, 43%
XYZ	12.9104, 13.6791, 16.7117
YIQ	103.1890, -4.9060, 0.8060

Conversions

Conversions Part 2

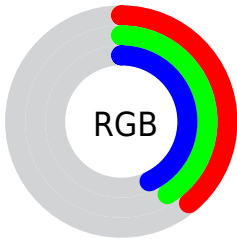
Format	Color
R _Y B	99, 102, 110
Decimal	6514798
CIE Lab	43.77, -0.60, -4.03
CIE LCh	44, 4.077, 261.485
Yxy	13.6791, 0.2982, 0.3159
Android (android.graphics.Color)	4284704878 (0xFF63686E)
YUV	103.1890, 3.3578, -3.6738
Hunter-Lab	36.9853, -2.4155, -0.9004

Details

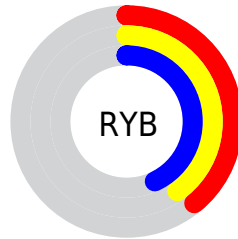
The XYZ color **12.9104, 13.6791, 16.7117** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **13.7342, 14.3189, 13.8446**, and the grayscale version is **12.9348, 13.6084, 14.8196**.

A 20% lighter version of the original color is **30.8206, 32.5354, 38.8379**, and **3.7765, 4.0152, 5.2786** is the 20% darker color. If you saturate the color by 10%, you get **11.2072, 11.9367, 16.4654**, and if you desaturate by 10%, it is **14.8211, 15.5929, 16.9806**.

Distribution



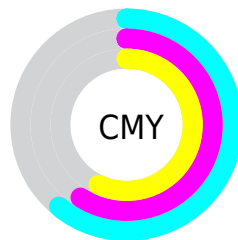
- Red (39%)
- Green (41%)
- Blue (43%)



- Red (39%)
- Yellow (40%)
- Blue (43%)



- Cyan (10%)
- Magenta (5%)
- Yellow (0%)
- Black (57%)



- Cyan (61%)
- Magenta (59%)
- Yellow (57%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9104, 13.6791, 16.7117 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 12.9104, 13.6791, 16.7117 by changing the saturation by 10% instead.

■ 12.9104, 13.6791,
16.7117

■ 12.9104, 13.6791,
16.7117

203.9919,
215.2253, 245.4929

■ 7.4434, 7.8978,
9.8694

■ 30.7454, 32.5185,
38.6133

■ 3.7897, 4.0296,
5.2080

■ 43.8442, 46.3455,
54.5096

■ 1.5839, 1.6902,
2.3089

■ 60.2176, 63.6231,
74.2609

■ 0.3819, 0.4173,
0.7362

■ 80.2310, 84.7358,
98.2859

■ 0.0000, 0.0000,
0.0000

104.2498,
110.0680, 127.0031

132.6393,

140.0040, 160.8310

165.7649,
174.9283, 200.1880

■ 12.9104, 13.6791,
16.7117

■ 12.9104, 13.6791,
16.7117

■ 11.2072, 11.9367,
16.4654

■ 14.8211, 15.5929,
16.9806

■ 9.7028, 10.3590,
16.2401

■ 16.9451, 17.6814,
17.2718

■ 8.3897, 8.9409,
16.0356

■ 19.2897, 19.9499,
17.5861

■ 7.2595, 7.6768,
15.8512

■ 21.8611, 22.4028,
17.9240

■ 6.3028, 6.5603,
15.6861

■ 24.6655, 25.0445,
18.2861

■ 5.5096, 5.5850,
15.5396

■ 27.7088, 27.8792,
18.6729

■ 4.8688, 4.7432,
15.4110

■ 30.9968, 30.9110,
19.0847

■ 4.3675, 4.0269,
15.2991

■ 34.5349, 34.1437,
19.5222

■ 3.9559, 3.4086,
15.2015

■ 38.3283, 37.5812,
19.9858

Harmonies

Analogous

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



12.6210, 13.6791, 16.3206



12.9104, 13.6791, 16.7117



13.2290, 13.6791, 16.6004

Triad

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



12.9104, 13.6791, 16.7117



13.5844, 13.6791, 14.2561



12.5246, 13.6791, 13.8203

Complementary

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



12.9104, 13.6791, 16.7117



13.7342, 14.3189, 13.8446

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.



12.7768, 13.6791, 13.3092



12.9104, 13.6791, 16.7117



13.3897, 13.6791, 13.5535

Square

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



12.9104, 13.6791, 16.7117



13.6216, 13.6791, 15.1575



13.0932, 13.6791, 13.2135



12.4007, 13.6791, 14.6340

Rectangle

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



12.9104, 13.6791, 16.7117



13.4147, 13.6791, 16.2581



13.0932, 13.6791, 13.2135



12.5970, 13.6791, 13.6089

Sweetspot

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



12.9108, 13.6797, 16.7120



24.9556, 26.3166, 29.6715



13.2647, 14.8219, 15.4907



5.7526, 6.0693, 6.8971



54.2243, 57.0482, 62.1254



6.0569, 6.3724, 6.9395

Same Dimension

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



12.9108, 13.6797, 16.7120



21.9476, 23.2874, 29.2454



12.4623, 12.7231, 16.5510



3.3309, 3.5271, 4.2595



4.7234, 4.0372, 18.2519



22.6889, 18.4296, 90.6406

Inverse Universe

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



13.3913, 13.2385, 14.9469



22.9763, 22.3638, 25.4614



14.2131, 15.3444, 14.0173



3.4417, 3.4244, 3.8527



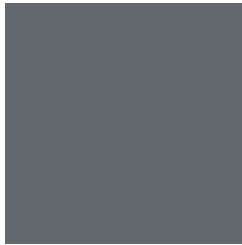
8.4025, 4.2534, 3.9296



41.4323, 21.0182, 17.3403

Previews

White Background



This preview shows how the XYZ color 12.9104, 13.6791, 16.7117 looks on a white background.

Color Contrast Check

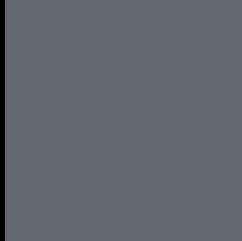
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 12.9104, 13.6791, 16.7117 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

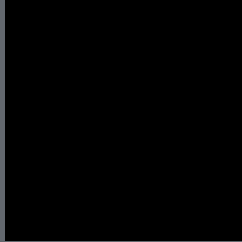
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

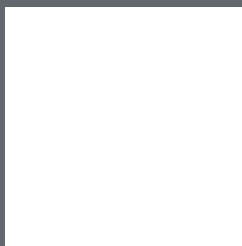
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.9104, 13.6791, 16.7117

Background



This preview shows how black text looks on a background with the XYZ color 12.9104, 13.6791, 16.7117.

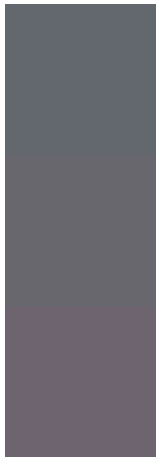


This preview shows how white text looks on a background with the XYZ color 12.9104, 13.6791,

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

12.9104, 13.6791, 16.7117

Protanopia

13.2041, 13.6882, 16.4142

Deuteranopia

13.8568, 13.5770, 16.9292



Tritanopia

13.0205, 13.7231, 17.2918

Trichromacy



Original Color

12.9104, 13.6791, 16.7117

Protanomaly

13.0901, 13.6294, 16.4088

Deuteranomaly

13.4668, 13.5192, 16.9386

Tritanomaly

12.9651, 13.7010, 17.0001

Monochromacy



Original Color

12.9104, 13.6791, 16.7117

Achromatopsia

12.8919, 13.5633, 14.7705

Achromatomaly

12.9313, 13.5659, 15.5726

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9104, 13.6791, 16.7117 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, 104, 110) looks like.

```
.text, #text, p{  
    color:rgb(99, 104, 110)  
}
```

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, 104, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 104, 110) }
```

Border

The CSS property to change the border of an element to XYZ 12.9104, 13.6791, 16.7117 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, 104, 110) }
```


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

```
.border{ border-color:rgb(99, 104, 110) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 104, 110)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 104, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 104, 110);  
box-shadow:4px 4px 4px 4px rgb(99, 104,  
110) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9104, 13.6791, 16.7117 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 104, 110) }
```

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

```
.background{ background-color: rgb(99, 104,  
110) }
```

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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