

Converting Colors

XYZ(12.2658, 13.5924, 12.4171)

Have a look what the booklet for
XYZ(12.2658, 13.5924, 12.4171)
contains.

XYZ(12.2829, 13.6028, 12.3341)	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(12.2829, 13.6028,
12.3341)**

Conversions

Conversions Part 1

Format	Color
Hex	64695D
RGB	100, 105, 93
RGB Percent	39%, 41%, 36%
CMY	0.6078, 0.5882, 0.6353
CMYK	0.05, 0.00, 0.11, 0.59
HSL	85°, 6%, 39%
HSV	85°, 11%, 41%
XYZ	12.2829, 13.6028, 12.3341
YIQ	102.1370, 0.8720, -4.7920

Conversions

Conversions Part 2

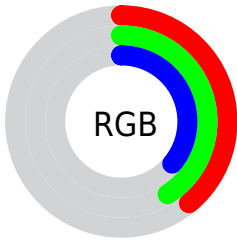
Format	Color
RYB	93, 105, 98
Decimal	6580573
CIELab	43.66, -4.36, 6.09
CIELCh	44, 7.486, 125.595
Yxy	13.6028, 0.3214, 0.3559
Android (android.graphics.Color)	4284770653 (0xFF64695D)
YUV	102.1370, -4.5045, -1.8741
Hunter-Lab	36.8820, -5.0971, 5.9896

Details

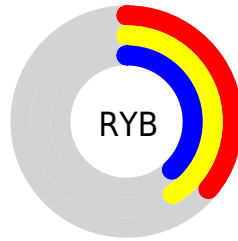
The XYZ color **12.2829, 13.6028, 12.3341** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **11.5016, 11.4456, 14.9683**, and the grayscale version is **12.6767, 13.3369, 14.5239**.

A 20% lighter version of the original color is **29.6089, 32.3394, 30.6682**, and **3.4943, 3.9882, 3.2750** is the 20% darker color. If you saturate the color by 10%, you get **11.3784, 13.1870, 10.0285**, and if you desaturate by 10%, it is **13.2780, 14.0587, 14.9780**.

Distribution



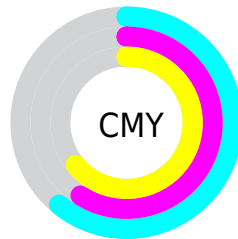
- Red (39%)
- Green (41%)
- Blue (36%)



- Red (36%)
- Yellow (41%)
- Blue (38%)



- Cyan (5%)
- Magenta (0%)
- Yellow (11%)
- Black (59%)



- Cyan (61%)
- Magenta (59%)
- Yellow (64%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2829, 13.6028, 12.3341 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 12.2829, 13.6028, 12.3341 by changing the saturation by 10% instead.

■ 12.2829, 13.6028,
12.3341

■ 12.2829, 13.6028,
12.3341

200.0012,
214.7456, 217.6606

■ 7.0102, 7.8449,
6.8463

■ 29.6217, 32.3826,
30.7756

■ 3.5149, 3.9959,
3.2892

■ 42.4186, 46.1733,
44.5664

■ 1.4315, 1.6713,
1.2441

■ 58.4542, 63.4104,
61.9620

■ 0.2785, 0.4049,
0.0153

■ 78.0939, 84.4783,
83.3810

■ 0.0000, 0.0000,
0.0000

101.7031,
109.7613, 109.2417

129.6472,

139.6440, 139.9629

162.2914,
174.5106, 175.9630

■ 12.2829, 13.6028,
12.3341

■ 12.2829, 13.6028,
12.3341

■ 11.3784, 13.1870,
10.0285

■ 13.2780, 14.0587,
14.9780

■ 10.5605, 12.8084,
8.0466

■ 14.3655, 14.5542,
17.9720

■ 9.8263, 12.4661,
6.3741

■ 15.5484, 15.0909,
21.3288

■ 9.1724, 12.1589,
4.9954

■ 16.8293, 15.6700,
25.0599

■ 8.5951, 11.8851,
3.8933

■ 18.2107, 16.2925,
29.1764

■ 8.0906, 11.6431,
3.0492

■ 19.6950, 16.9593,
33.6889

■ 7.6541, 11.4311,
2.4417

■ 21.2844, 17.6714,
38.6077

■ 7.2806, 11.2470,
2.0456

■ 22.9811, 18.4298,
43.9425

■ 6.9912, 11.1035,
1.7747

■ 24.7874, 19.2354,
49.7029

Harmonies

Analogous

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



12.8193, 13.6028, 11.8202



12.2829, 13.6028, 12.3341



11.9278, 13.6028, 13.5147

Triad

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



12.2829, 13.6028, 12.3341



12.4681, 13.6028, 17.9555



14.0857, 13.6028, 14.4981

Complementary

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



12.2829, 13.6028, 12.3341



11.5016, 11.4456, 14.9683

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.



13.9848, 13.6028, 16.1879



12.2829, 13.6028, 12.3341



13.0395, 13.6028, 18.2683

Square

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



12.2829, 13.6028, 12.3341



12.0324, 13.6028, 16.7742



13.5975, 13.6028, 17.5994



13.8691, 13.6028, 13.0075

Rectangle

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



12.2829, 13.6028, 12.3341



11.8356, 13.6028, 14.5641



13.5975, 13.6028, 17.5994



14.0879, 13.6028, 15.0609

Sweetspot

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



12.2833, 13.6034, 12.3344



23.4684, 25.0326, 25.9918



12.1696, 12.5294, 12.1331



5.4683, 5.8506, 6.0102



52.6788, 55.4222, 60.3547



5.6320, 5.9254, 6.4527

Same Dimension

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



12.2833, 13.6034, 12.3344



21.4954, 24.1285, 20.7957



11.6438, 13.2738, 12.3045



3.2172, 3.5238, 3.3280



8.8092, 14.0365, 2.2450



43.8811, 71.0036, 11.3923

Inverse Universe

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



11.5016, 11.4456, 14.9683



19.7656, 19.3532, 26.6248



12.1736, 11.7920, 14.9998



3.0568, 3.0810, 3.8685



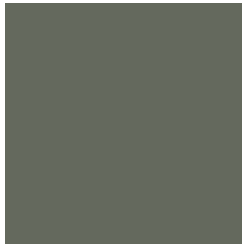
4.4897, 1.9416, 17.0604



21.9330, 9.4065, 86.8858

Previews

White Background



This preview shows how the XYZ color 12.2829, 13.6028, 12.3341 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 12.2829, 13.6028, 12.3341 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

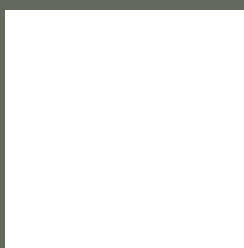
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.2829, 13.6028, 12.3341

Background



This preview shows how black text looks on a background with the XYZ color 12.2829, 13.6028, 12.3341.



This preview shows how white text looks on a background with the XYZ color 12.2829, 13.6028,

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

12.2829, 13.6028, 12.3341

Protanopia

12.9664, 13.6613, 12.0787

Deuteranopia

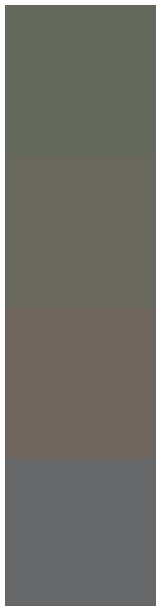
13.6847, 13.4448, 12.4635



Tritanopia

13.2141, 13.5340, 16.9548

Trichromacy



Original Color

12.2829, 13.6028, 12.3341

Protanomaly

12.7078, 13.6766, 12.0953

Deuteranomaly

13.1045, 13.4305, 12.4913

Tritanomaly

12.8284, 13.5248, 15.0311

Monochromacy



Original Color

12.2829, 13.6028, 12.3341

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

12.4692, 13.3680, 13.7275

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2829, 13.6028, 12.3341 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(100, 105, 93)` looks like.

```
.text, #text, p{  
    color:rgb(100, 105, 93)  
}
```

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(100, 105, 93) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 105, 93) }
```

Border

The CSS property to change the border of an element to XYZ 12.2829, 13.6028, 12.3341 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(100, 105, 93) }
```


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

```
.border{ border-color:rgb(100, 105, 93) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 105, 93)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 105, 93); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 105, 93);  
box-shadow:4px 4px 4px 4px rgb(100, 105,  
93) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2829, 13.6028, 12.3341 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 105, 93) }
```

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

```
.background{ background-color: rgb(100,  
105, 93) }
```

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