

Converting Colors

XYZ(12.1333, 12.6594, 16.4775)

Have a look what the booklet for
XYZ(12.1333, 12.6594, 16.4775)
contains.

XYZ(12.1955, 12.7269, 16.5656)	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(12.1955, 12.7269,
16.5656)**

Conversions

Conversions Part 1

Format	Color
Hex	60646E
RGB	96, 100, 110
RGB Percent	38%, 39%, 43%
CMY	0.6235, 0.6078, 0.5686
CMYK	0.13, 0.09, 0.00, 0.57
HSL	223°, 7%, 40%
HSV	223°, 13%, 43%
XYZ	12.1955, 12.7269, 16.5656
YIQ	99.9440, -5.5940, 2.2620

Conversions

Conversions Part 2

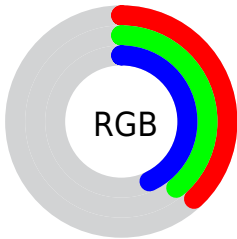
Format	Color
R_{YB}	96, 99, 110
Decimal	6317166
CIE Lab	42.35, 0.68, -6.17
CIE LCh	42, 6.205, 276.328
Yxy	12.7269, 0.2940, 0.3068
Android (android.graphics.Color)	4284507246 (0xFF60646E)
YUV	99.9440, 4.9576, -3.4589
Hunter-Lab	35.6748, -1.4103, -2.5590

Details

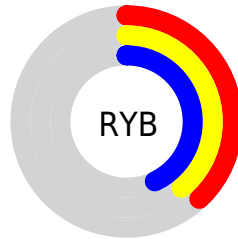
The XYZ color **12.1955, 12.7269, 16.5656** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **13.6958, 14.4675, 13.1373**, and the grayscale version is **12.0879, 12.7174, 13.8493**.

A 20% lighter version of the original color is **29.6208, 30.9449, 38.5942**, and **3.4580, 3.5721, 5.0647** is the 20% darker color. If you saturate the color by 10%, you get **10.4007, 10.7368, 16.2763**, and if you desaturate by 10%, it is **14.2257, 14.9470, 16.8873**.

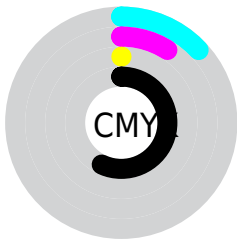
Distribution



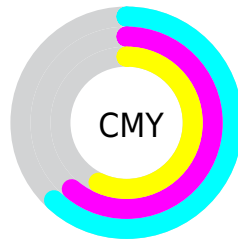
- Red (38%)
- Green (39%)
- Blue (43%)



- Red (38%)
- Yellow (39%)
- Blue (43%)



- Cyan (13%)
- Magenta (9%)
- Yellow (0%)
- Black (57%)



- Cyan (62%)
- Magenta (61%)
- Yellow (57%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.1955, 12.7269, 16.5656 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 12.1955, 12.7269, 16.5656 by changing the saturation by 10% instead.

■ 12.1955, 12.7269,
16.5656

■ 12.1955, 12.7269,
16.5656

199.4389,
209.1599, 244.6151

■ 6.9501, 7.2408,
9.7666

■ 29.4644, 30.8123,
38.3577

■ 3.4770, 3.6131,
5.1409

■ 42.2187, 44.1803,
54.1879

■ 1.4107, 1.4596,
2.2700

■ 58.2067, 60.9444,
73.8656

■ 0.2638, 0.2600,
0.7143

■ 77.7936, 81.4890,
97.8093

■ 0.0000, 0.0000,
0.0000

101.3450,
106.1984, 126.4376

129.2261,

135.4571, 160.1689

161.8022,
169.6495, 199.4219

■ 12.1955, 12.7269,
16.5656

■ 12.1955, 12.7269,
16.5656

■ 10.4007, 10.7368,
16.2763

■ 14.2257, 14.9470,
16.8873

■ 8.8315, 8.9674,
16.0175

■ 16.4984, 17.4025,
17.2415

■ 7.4789, 7.4114,
15.7884

■ 19.0219, 20.1010,
17.6293

■ 6.3330, 6.0603,
15.5880

■ 21.8037, 23.0489,
18.0517

■ 5.3829, 4.9051,
15.4151

■ 24.8509, 26.2526,
18.5095

■ 4.6169, 3.9358,
15.2684

■ 28.1705, 29.7181,
19.0035

■ 4.0218, 3.1417,
15.1465

■ 31.7690, 33.4514,
19.5344

■ 3.5810, 2.5101,
15.0478

■ 35.6529, 37.4580,
20.1031

■ 3.3160, 2.1289,
14.9882

■ 39.8284, 41.7436,
20.7102

Harmonies

Analogous

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



11.7406, 12.7269, 16.3412



12.1955, 12.7269, 16.5656



12.6348, 12.7269, 16.0277

Triad

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



12.1955, 12.7269, 16.5656



12.8323, 12.7269, 12.3931



11.2949, 12.7269, 12.8531

Complementary

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



12.1955, 12.7269, 16.5656



13.6958, 14.4675, 13.1373

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.



11.5738, 12.7269, 11.8925



12.1955, 12.7269, 16.5656



12.4596, 12.7269, 11.6390

Square

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



12.1955, 12.7269, 16.5656



13.0085, 12.7269, 13.5767



11.9981, 12.7269, 11.4618



11.2282, 12.7269, 14.1420

Rectangle

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



12.1955, 12.7269, 16.5656



12.8571, 12.7269, 15.3284



11.9981, 12.7269, 11.4618



11.3666, 12.7269, 12.4837

Sweetspot

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



12.1959, 12.7274, 16.5659



24.4659, 25.6873, 29.5759



12.9911, 14.6753, 15.7293



5.6412, 5.9208, 6.8743



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.



12.1959, 12.7274, 16.5659



20.5357, 21.3783, 28.9513



12.1213, 12.1332, 16.4551



3.2881, 3.4415, 4.2452



3.9604, 2.5111, 17.9976



19.0764, 11.2047, 89.4364

Inverse Universe

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



12.9138, 12.6011, 13.8088



22.0403, 21.1345, 23.1684



13.7749, 15.1348, 13.2619



3.4201, 3.4157, 3.7389



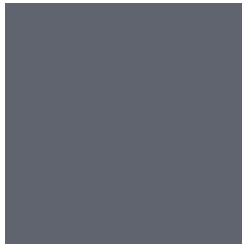
8.0174, 4.0993, 1.9013



39.6089, 20.2889, 7.7385

Previews

White Background



This preview shows how the XYZ color 12.1955, 12.7269, 16.5656 looks on a white background.

Color Contrast Check

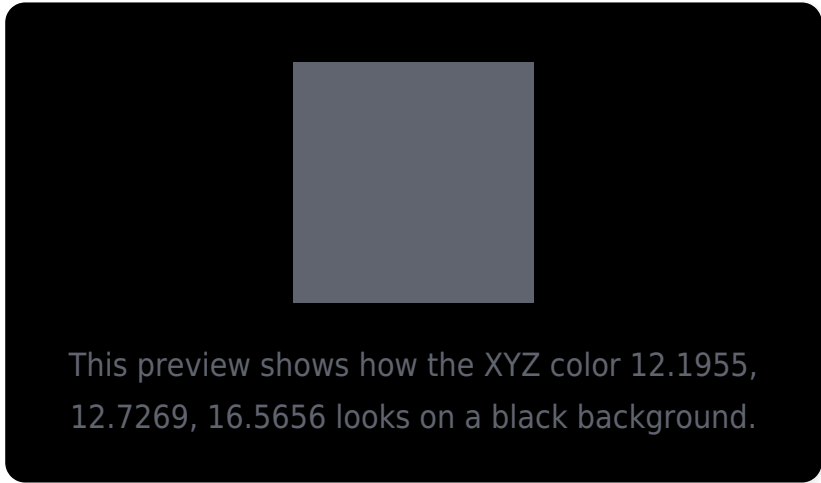
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

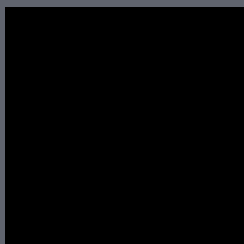
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

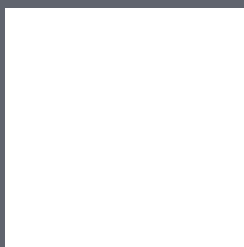
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.1955, 12.7269, 16.5656

Background



This preview shows how black text looks on a background with the XYZ color 12.1955, 12.7269, 16.5656.

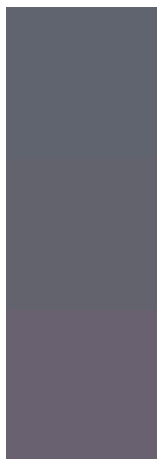


This preview shows how white text looks on a background with the XYZ color 12.1955, 12.7269,

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

12.1955, 12.7269, 16.5656

Protanopia

12.3677, 12.6805, 16.2637

Deuteranopia

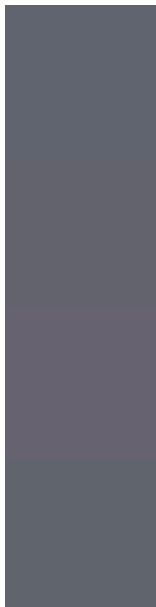
12.9696, 12.7003, 16.8068



Tritanopia

12.0878, 12.6838, 15.9985

Trichromacy



Original Color

12.1955, 12.7269, 16.5656

Protanomaly

12.2592, 12.6245, 16.2586

Deuteranomaly

12.7164, 12.7078, 16.8216

Tritanomaly

12.1414, 12.7053, 16.2804

Monochromacy



Original Color

12.1955, 12.7269, 16.5656

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

12.2015, 12.7665, 14.9178

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.1955, 12.7269, 16.5656 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(96, 100, 110) looks like.

```
.text, #text, p{  
    color:rgb(96, 100, 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(96, 100, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(96, 100, 110) }
```

Border

The CSS property to change the border of an element to XYZ 12.1955, 12.7269, 16.5656 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(96, 100, 110) }
```


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

```
.border{ border-color:rgb(96, 100, 110) }
```

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

Here you see how a box with a 4 pixel `rgb(96, 100, 110)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(96, 100, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(96, 100, 110);  
box-shadow:4px 4px 4px 4px rgb(96, 100,  
110) }
```

Background

The CSS property to change the background color of an element to XYZ 12.1955, 12.7269, 16.5656 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(96, 100, 110) }
```

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

```
.background{ background-color: rgb(96, 100,  
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](#).

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