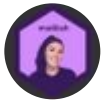


← Thread



Moriah Taylor (she/her)
@moriah_taylor58



Having trouble picking a color palette for your [#Rstats](#) visualization? Well here's a MEGA thread about all the ways you can choose a palette! 🧵 [1/22]

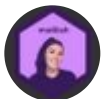
12:27 PM · May 20, 2021 · Twitter Web App

877 Retweets 140 Quote Tweets 3,723 Likes



Tweet your reply

Reply



Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021



Replying to @moriah_taylor58

We'll start off with the classics. First, you can use the palettes that are already a part of R's base code (keep in mind that these palettes were not necessarily designed to be colorblind-friendly)

[2/22]

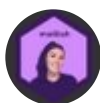


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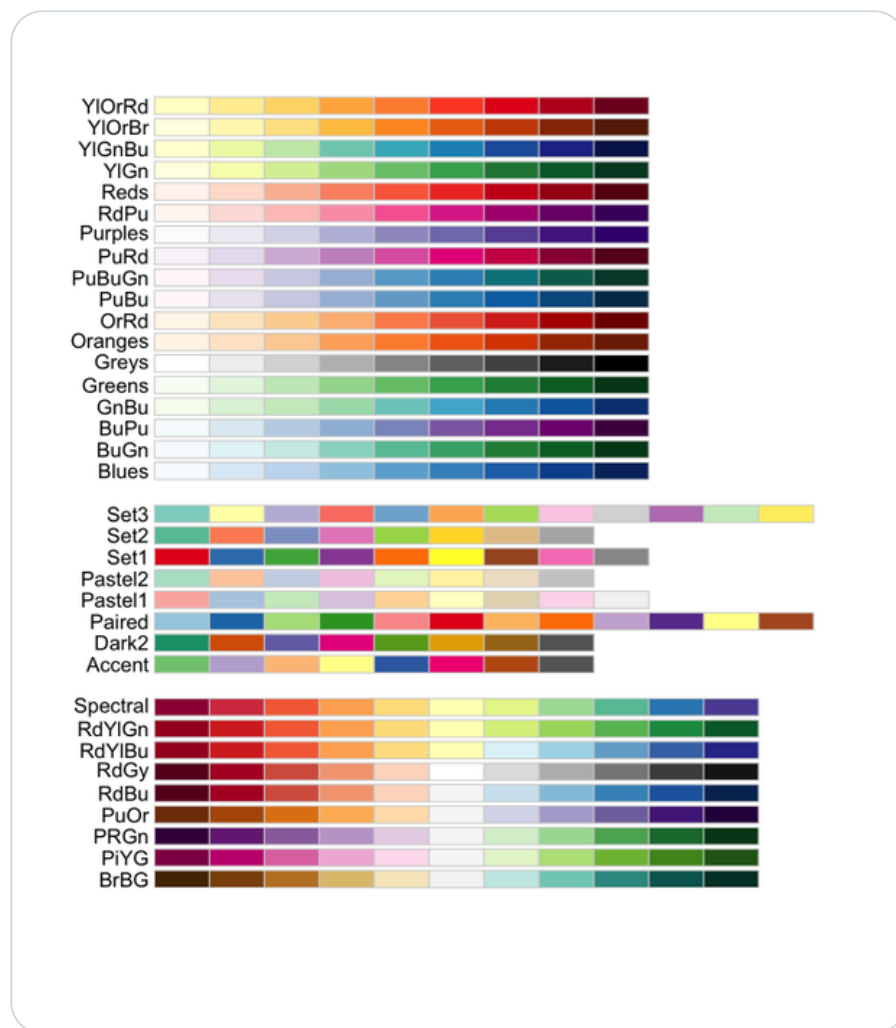
Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021

...

The next classic set of palettes comes from {RColorBrewer}. You can use the command `display.brewer.all(colorblindFriendly = TRUE)` to see which palettes are colorblind-friendly.

(A guide to this package: datanovia.com/en/blog/the-a-...)

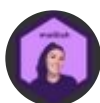
[3/22]



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6

75



Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021

...

Another very popular package used for visualizations is {viridis}. The great thing about these palettes is that they're ALL colorblind friendly.

(Documentation: cran.r-project.org/web/packages/viridis/)

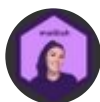
[4/22]



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15

128



Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021



Now onto some lesser-known packages. This one is starting to gain popularity in the community: {wesanderson}. This package has a variety of palettes inspired by Wes Anderson films which are all colorblind-friendly.

(Documentation: [github.com/karthik/wesand...](https://github.com/karthik/wesanderson))

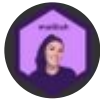
[5/22]



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228



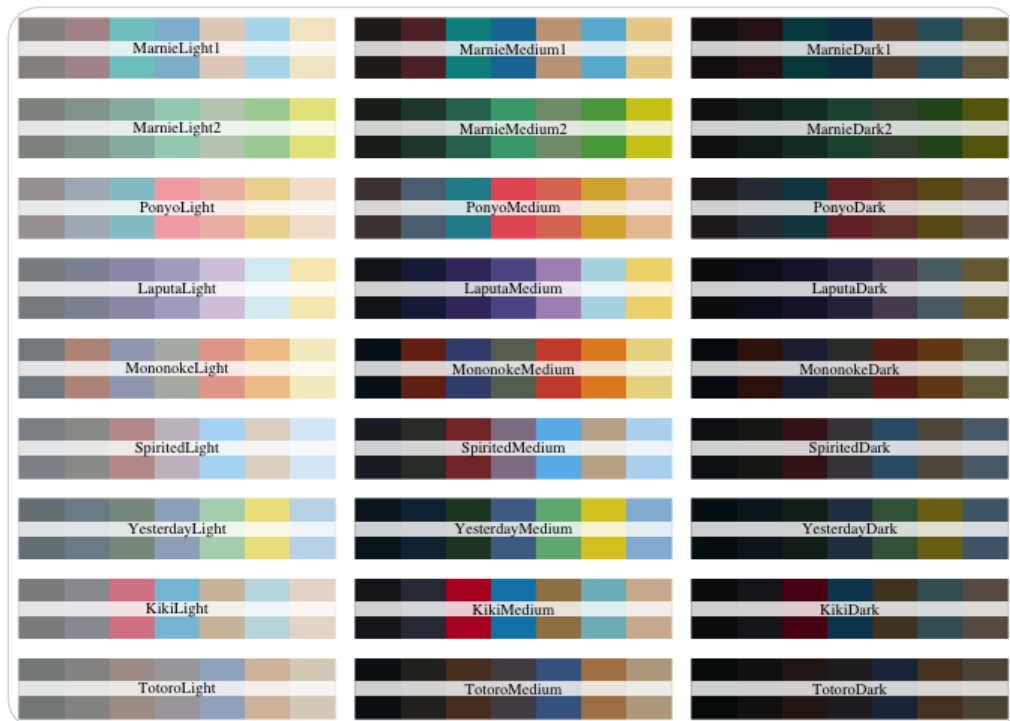
Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021



Another package which was inspired by the wesanderson package is {ghibli} which has palettes inspired by Studio Ghibli movies which are also all colorblind-friendly. PonyoMedium is one of my favorites!

(Documentation: ewenme.github.io/ghibli/)

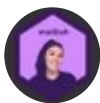
[6/22]



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42

305



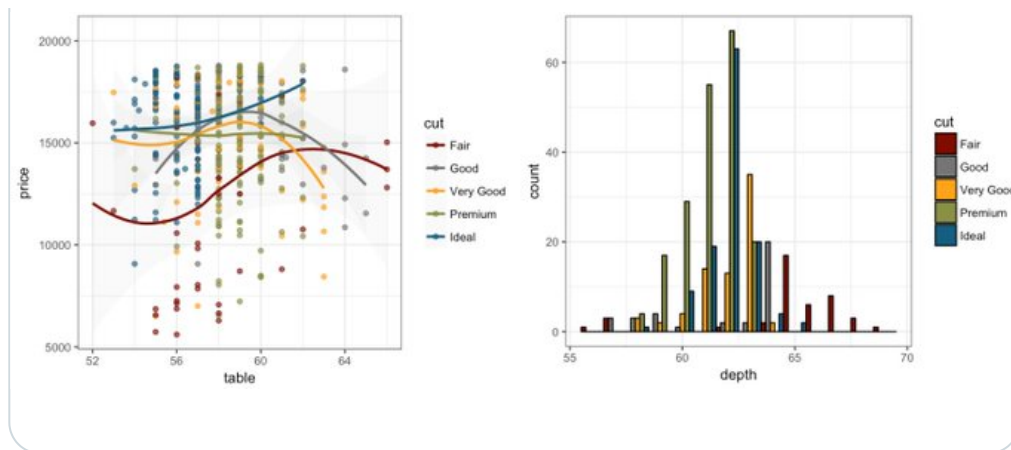
Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021



The package {ggsci} contains color palettes inspired by colors used in scientific journals (FYI, these palettes may not be the best choice when trying to create visualizations that are colorblind/printer/photocopy-friendly)

(Documentation: cran.r-project.org/web/packages/ggsci/)

[7/22]

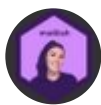


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54

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Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021

...

Get palettes that are used by Open Analytics (link: openanalytics.eu) using the package {oaColors}

(Documentation: cran.rstudio.com/web/packages/o...)

[8/22]



cran.rstudio.com

oaColors: OpenAnalytics Colors Package

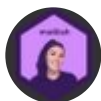
Provides carefully chosen color palettes as used
a.o. at OpenAnalytics ...

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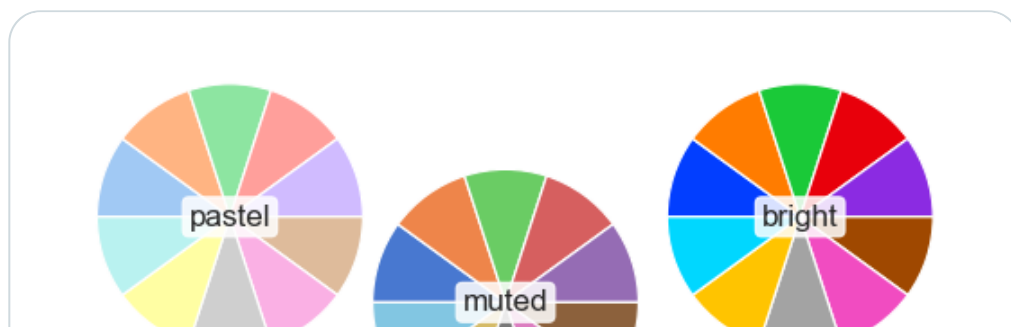


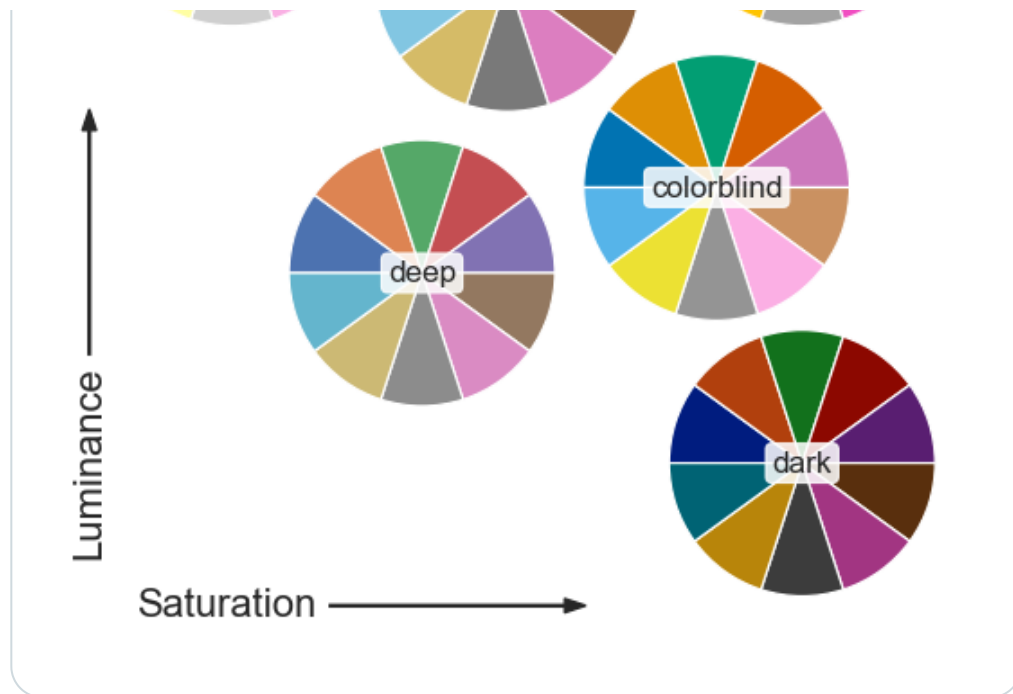
Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021

...

The Python package 'seaborn' has some great color palettes, including a color-blind friendly one. You can load these colors in manually using this R code from GitHub: github.com/timelyportfolio...

[9/22]

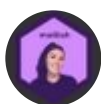




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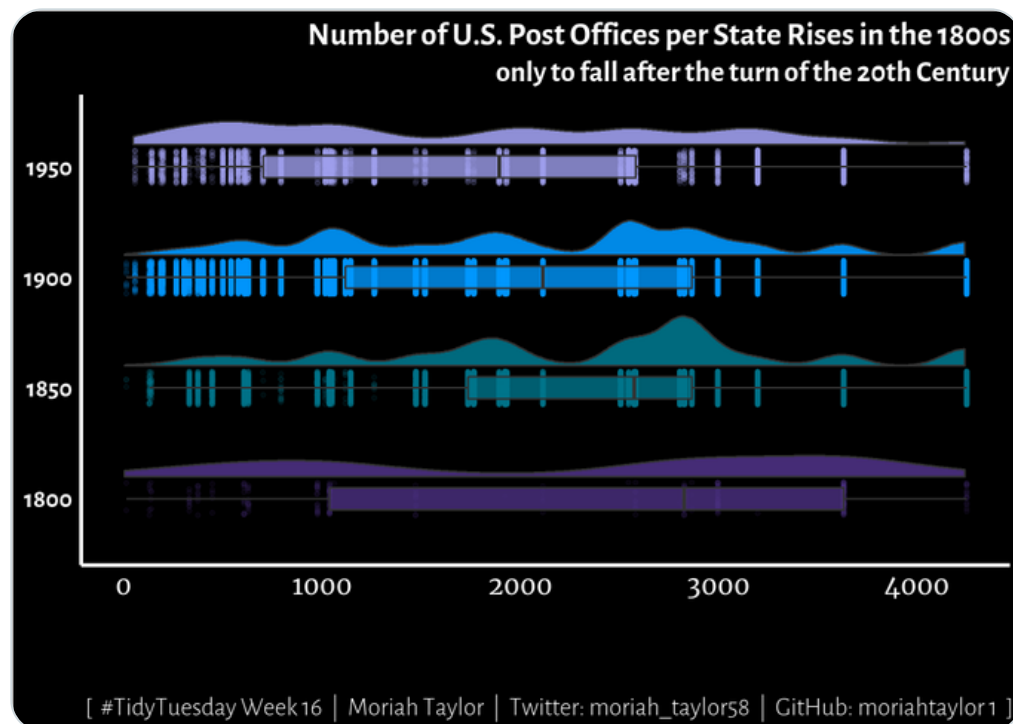
Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021

...

None of these preset palettes tickle your fancy? Make your own! There are a variety of packages and websites that can help you do this.

(Pictured: example of a visualization I made with a custom color theme)

[10/22]

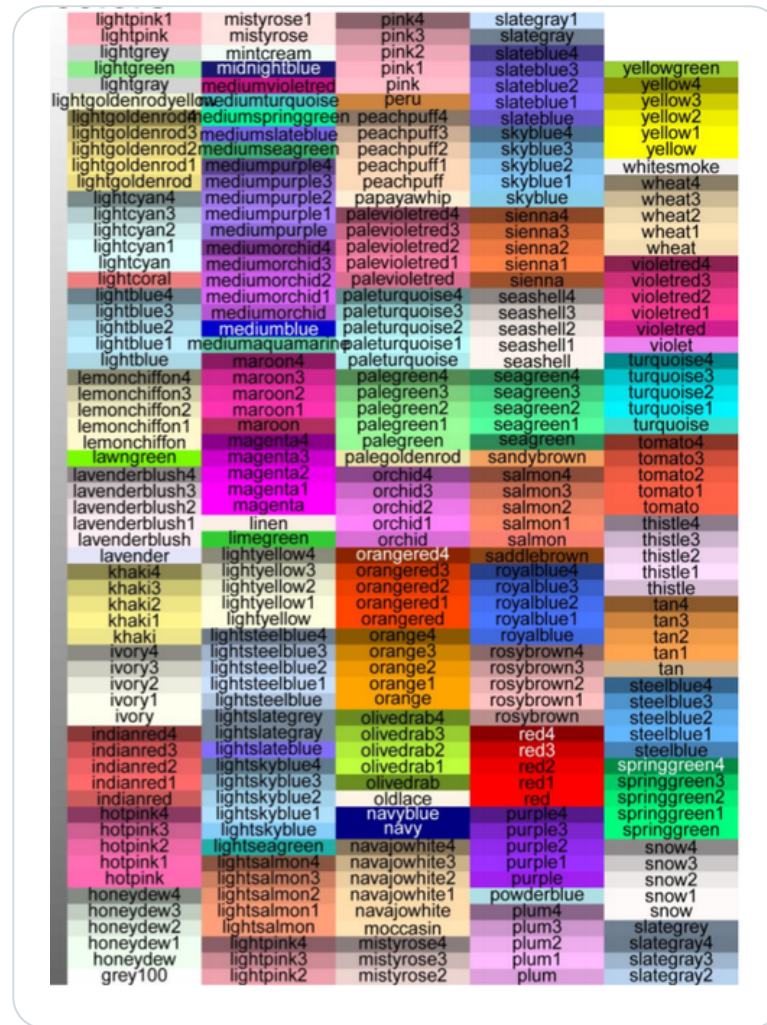


Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021

...

If you don't want to use HEX codes, R has 657 built-in color names. See this cheatsheet for more information: nceas.ucsb.edu/sites/default/...

[11/22]



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↑

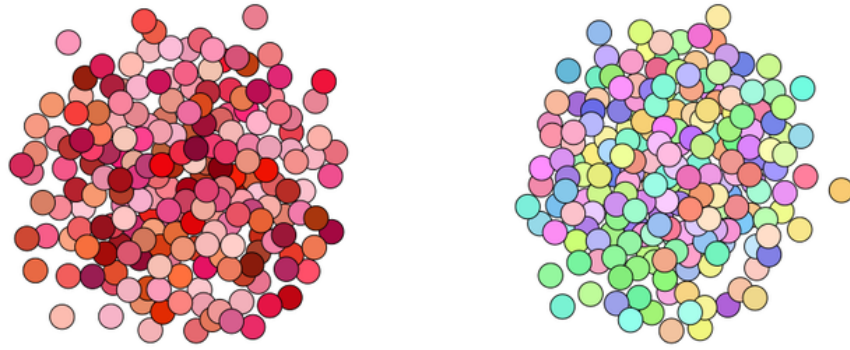
Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021

...

Generate some random colors using the package {randomcoloR} where you can specify things like hue and brightness. Here are a couple examples: hue="red" and luminosity="light"

(Documentation: github.com/ronammar/rando...)

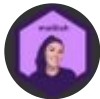
[12/22]



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48



Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021



Making an elevation map and want it to look like the actual place it's from?
Use the package {earthtones} to derive a color palette from a particular location on Earth

(Documentation: [cran.r-project.org/web/packages/e...](https://cran.r-project.org/web/packages/earthtones/index.html))

[13/22]

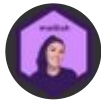




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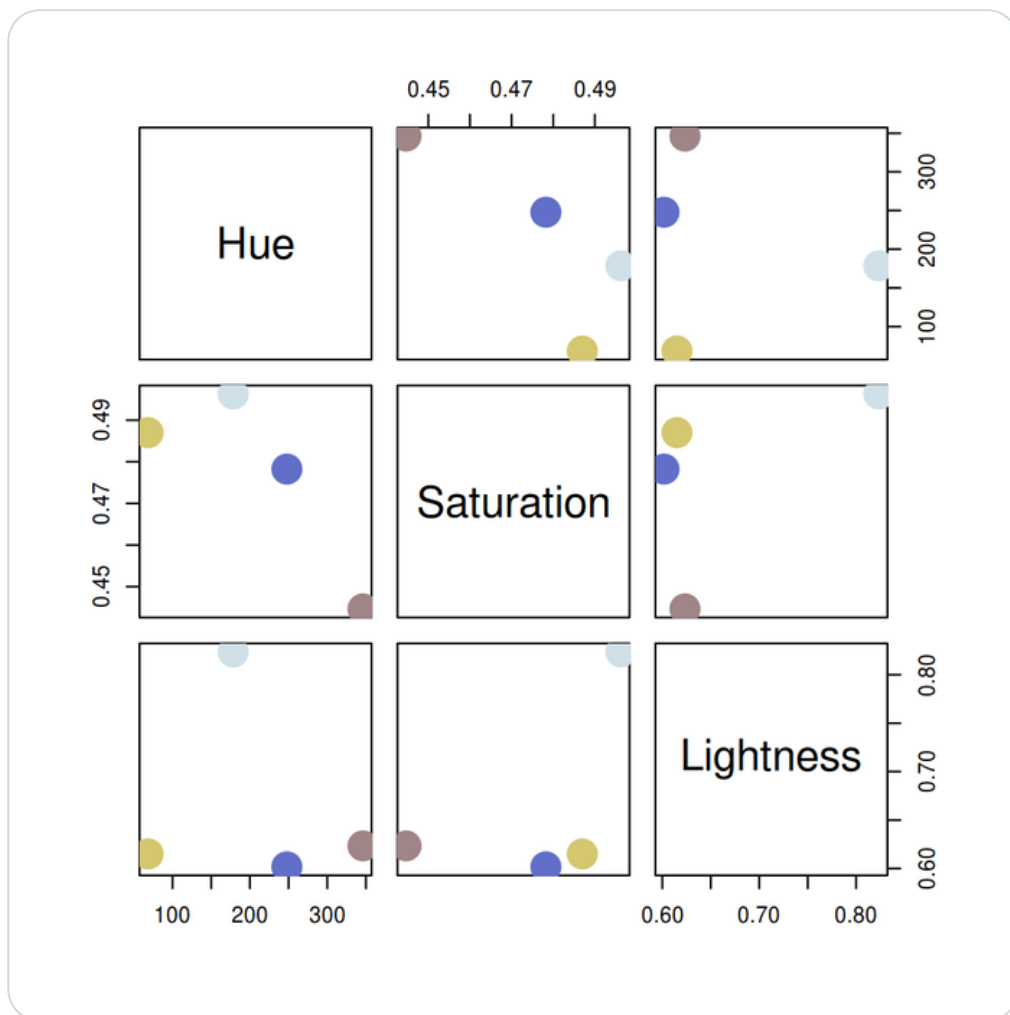
Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021

...

Use the package {qualpalR} which, when given a number of colors (n) and an HSL color space, provides n colors which maximize smallest pairwise color differences.

(Documentation: github.com/jolars/qualpalr)

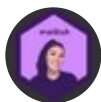
[14/22]



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23



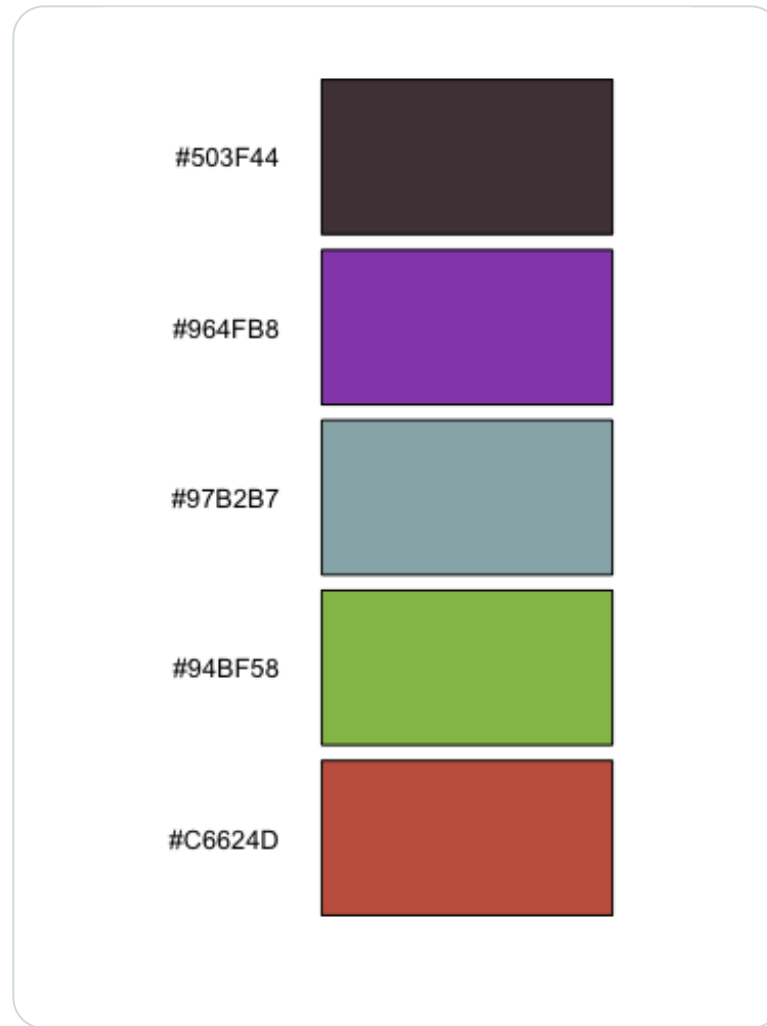
Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021

...

Use colors from the i want hue website (link: medialab.github.io/iwanthue/) with the R package {hues}

(Documentation: github.com/johnbaums/hues)

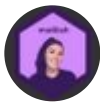
[15/22]



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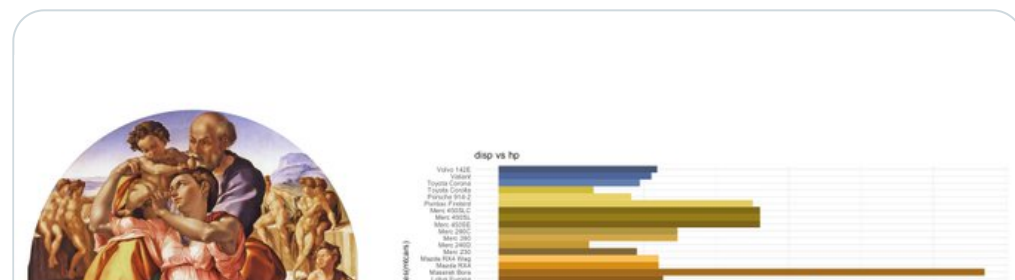
Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021

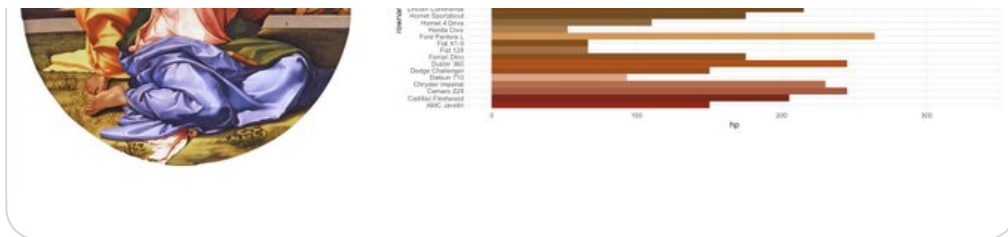
...

Another really interesting/cool way to build a custom color palette is to generate one from an image, which you can do thanks to the package `{paletteR}`

(Documentation: [github.com/AndreaCirilloA...](https://github.com/AndreaCirilloA/PyTorch-ResNet-101))

[16/22]

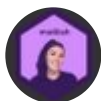




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118



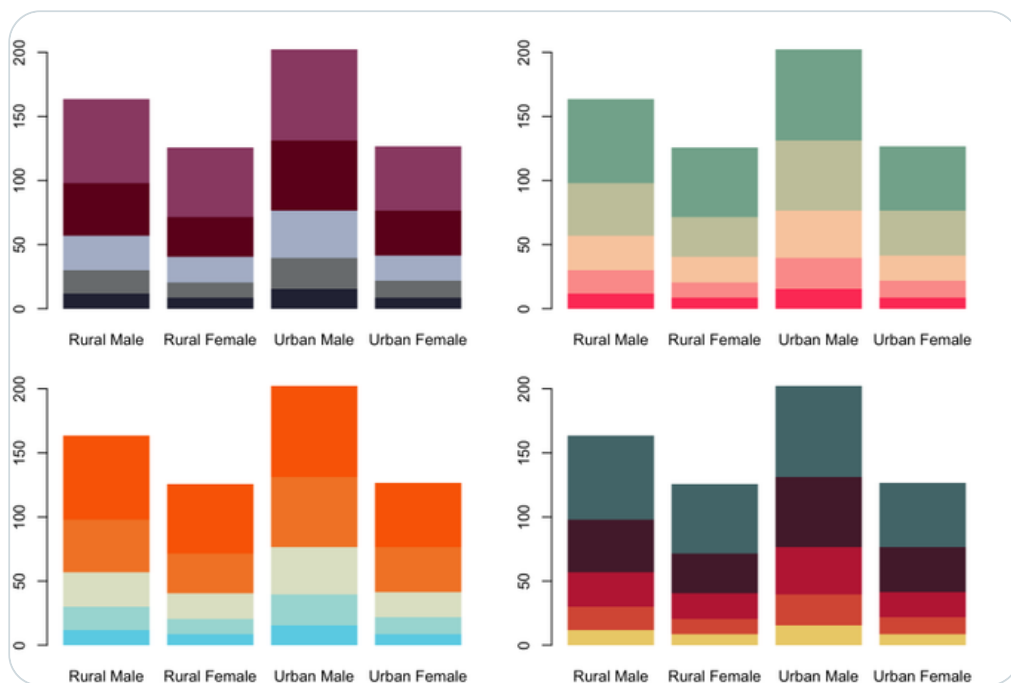
Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021



Use palettes from the website [COLOURlovers.com](https://colourlovers.com) with the R package {colourlovers}

(Documentation: github.com/andrewheiss/co...)

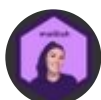
[17/22]



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56



Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021



You can also create a palette on the website Data Color Picker (link: learnui.design/tools/data-col...) which generates palettes for you with lots of options, including viewing the palette on a dark background, and selecting a single-hue or divergent palette.

[18/22]

PALETTE SINGLE HUE DIVERGENT

PALETTE GENERATOR

NUMBER OF COLORS

3 4 5 6 7 8

BACKGROUND COLOR

LIGHT

DARK



#003f5c



#58508d



#bc5090



#ff6361



#ffa600

learnui.design

The Data Viz Color Picker

Create visually-equidistant color schemes for data visualizations using one, two, or many hues.



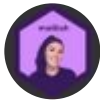
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48



Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021



REGARDLESS of which method you use, please keep the colorblind community in mind. There are numerous tools out there to test whether your color palette is colorblind-friendly, I'll provide a couple that I use.

[19/22]



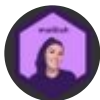
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39



Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021



My personal favorite is the Viz Palette tool (link: projects.susielu.com/viz-palette) created by Elijah Meeks and Susie Lu.

[20/22]

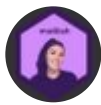




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63



Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021



There is also an R package {colorblindR} that simulates colorblindness on R figures.

(Documentation: [github.com/clauswilke/col...](https://github.com/clauswilke/colorblindR))

[21/22]

clauswilke/ colorblindr



An R package to simulate colorblindness on R figures.



4

Contributors



6

Issues



279

Stars



26

Forks



github.com

GitHub - clauswilke/colorblindr: An R package to simulate colorblindn...

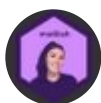
An R package to simulate colorblindness on R figures. - GitHub -

clauswilke/colorblindr: An R package to simulate colorblindness on R ...

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72



Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021



I hope this thread inspired you to branch out and use fun color palettes! Happy plotting!

[22/22]

10



62



You and this Tweeter share some mutual follows



Cianna Bedford-Petersen @ciannabp · May 21, 2021





Replying to @moriah_taylor58

Thanks for sharing, so many great resources out there. Creating and tinkering with color palettes has been one of my favorite parts of learning R in grad school!

github.com/ciannabp/inaug...



5



You and this Tweeter share some mutual follows



Achim Zeileis @zeileis@fosstodon.o... @AchimZeil... · May 21, 2021 ...

Replying to @moriah_taylor58

Starting with version 3.6.0 base [#rstats](#) has been enhanced with > 100 palettes [#dataviz](#)

`hcl.colors()`

sequential & diverging & qualitative with fixed luminance

default: viridis

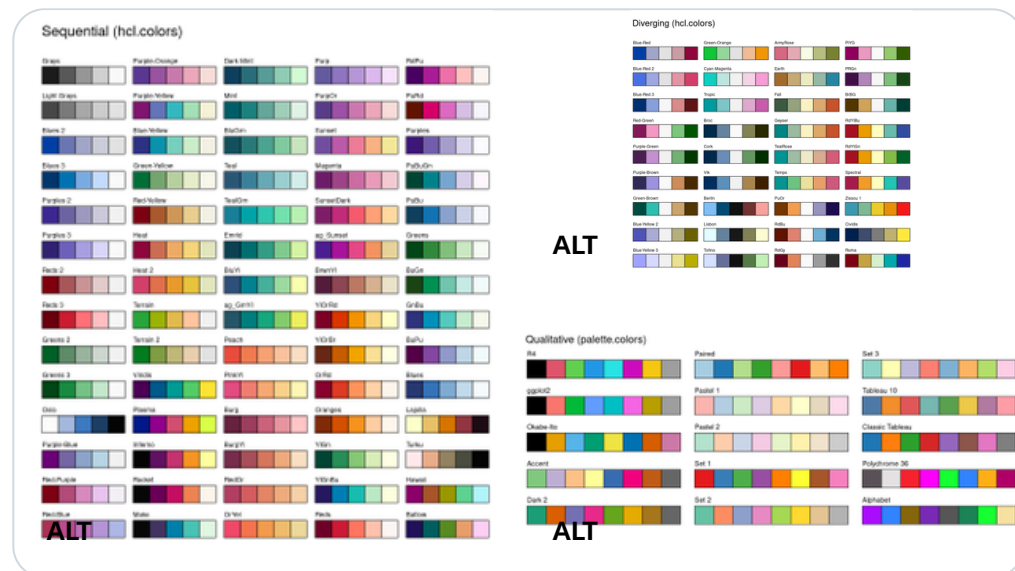
developer.R-project.org/Blog/public/20...

`palette.colors()`

qualitative

default: Okabe-Ito

developer.R-project.org/Blog/public/20...



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17



50



Some accounts you follow often like this Tweeter



Philippe Massicotte @philmassicotte · May 20, 2021 ...

Replying to @moriah_taylor58

There is also the nice `{paletteer}` package.

pmassicotte.github.io/paletteer_gallery/

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7



Justin @montanajustin · May 20, 2021

...

Replying to @philmassicotte and @moriah_taylor58

Was going to mention paletteer which is wonderful 🌈



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Oscar Baruffa | @oscarbaruffa@fossto... @OscarB... · May 21, 2021

...

Replying to @moriah_taylor58

Also Rockthemes by @_johnmackintosh base don classic rock albums

johnmackintosh/ rockthemes



R colour palettes based on classic rock album covers.



7

Contributors



1

Issues



2

Discussions



30

Stars



10

Forks



github.com

GitHub - johnmackintosh/rockthemes: R colour palettes based on cla...

R colour palettes based on classic rock album covers. - GitHub -

johnmackintosh/rockthemes: R colour palettes based on classic rock ...



6



You and this Tweeter share some mutual follows



Daniel Possenriede a.k.a. @dpprdan@m... @dppr... · May 22, 2021

...

Replying to @moriah_taylor58

{paletteer} by @Emil_Hvitfeldt features many of the colour palettes mentioned in this thread:

"The goal of paletteer is to be a comprehensive collection of color palettes in R using a common interface. Think of it as the “caret of palettes”."

emilhvittfeldt.github.io/paletteer/



David Eccles       @gringene_bio · May 20, 2021



Replying to @moriah_taylor58

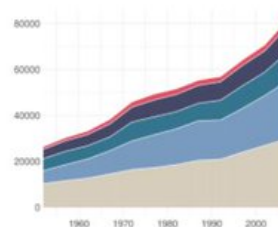
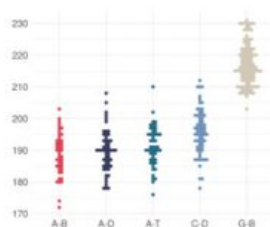
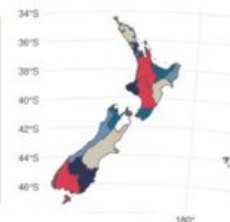
There's also manu, which is a package containing NZ bird-themed palettes:



John Kerr @SciComGuy · Mar 22, 2021

(also a quick shout out to @taramcallister4 & @GojThomson for the fantastic Takahē palette from the Manu R package) github.com/G-Thomson/Manu

Show this thread



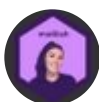
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47



Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021



Replying to @gringene_bio

Okay this one is super cool! Thank you for sharing!



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Show replies

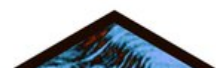


Lorena Abad @loreabad6 · May 20, 2021



Replying to @moriah_taylor58 and @dr_xeo

Great ! I would add {scico} to the list!





github.com

GitHub - thomasp85/scico: Palettes for R based on the Scientific Col...
Palettes for R based on the Scientific Colour-Maps - GitHub -
thomasp85/scico: Palettes for R based on the Scientific Colour-Maps



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11



Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021



Replying to @loreabad6 and @dr_xeo

Awesome! Thank you for the additional resource



1



Victória Etges Helfer @VicHelfer · May 20, 2021



Replying to @moriah_taylor58

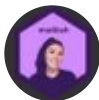
Thank you for this amazing thread! 🌟🌟



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Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021



Replying to @VicHelfer

Of course! I thought it'd be useful to have all of these in one place



Neil Mc Erlean @neilmcer · May 21, 2021



Replying to @moriah_taylor58

I don't know any R, but this stuff is great!

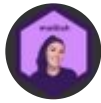


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Moriah Taylor (she/her) @moriah_taylor58 · May 21, 2021



Replying to @neilmcer

Thank you! You could always find the HEX codes for any of these palettes and use them elsewhere 😊



You and this Tweeter share some mutual follows



Z on mastodon now 🦄🇨🇦🌈 @StarTrek_Lt · May 20, 2021



Replying to @moriah_taylor58

if I need a palette, I use colors.co but I like knowing about the package colorblindr



Anton Becker @dr_becker · May 20, 2021



Replying to @StarTrek_Lt and @moriah_taylor58

Came here for this! colors.co rocks!!



Show replies



Alexandra Bagaini @a_bagaini · May 20, 2021



Replying to @moriah_taylor58

This thread is amazing 🌟! Thanks Moriah for putting this together! Choosing the right colours always takes me quite some time ⌚.



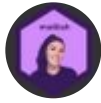
Miranda Bane @MirandaBeeGirl · May 21, 2021



Replying to @moriah_taylor58

Thank you for sharing this! I love the process of choosing colours for my figures and had no idea there were some many different options available. Always try and make them colourblind friendly having worked in an office where half my colleagues were colourblind!





Moriah Taylor (she/her) @moriah_taylor58 · May 21, 2021

...

Replying to @MirandaBeeGirl

Agreed, it's something people don't take into consideration enough



Gabriel Boechat @gab_boechat · May 20, 2021

...

Replying to @moriah_taylor58

[@gabiloki](#) tem paleta do Studio Ghibli!

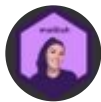


Rahul Venugopal @rhlvenugopal · May 20, 2021

...

Replying to @moriah_taylor58 and @dr_xeo

Thank you for this compilation. Colormind io is also a cool resource
[colormind.io](#)



Moriah Taylor (she/her) @moriah_taylor58 · May 20, 2021

...

Replying to @rhlvenugopal

Super cool! Thank you for the resource



Mario Cortina Borja 🇪🇺 @cortina_borja · May 20, 2021

...

Replying to @moriah_taylor58

[@SamuelRNeal](#) [@LIdueta](#) [@giulianoimpiedi](#) [@Virginia_Rasi](#) might be interested



Will Simmons @simmonswilliam_ · May 20, 2021

...

Replying to @moriah_taylor58

So many 💎s on this thread, thank you!!! Others have mentioned
[coolors.co](#) - I visit the site so much that I made an R implementation of its
random palette generator (still very much in dev)

simmwill/coolors

Generate palettes from colors.co



1

Contributor

0

Issues

4

Stars

0

Forks



github.com

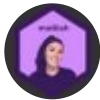
GitHub - simmwill/coolors: Generate palettes from colors.co

Generate palettes from colors.co. Contribute to simmwill/coolors development by creating an account on GitHub.

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8



Moriah Taylor (she/her) @moriah_taylor58 · May 21, 2021

...

Replying to @simmonswilliam_

Very cool!



Mariana Argenziano, PhD ❤️ @DrMaru_ · May 21, 2021

...

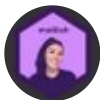
Replying to @moriah_taylor58

Wow! Great piece of information, I spend hours picking color palettes. 🙌

1



2



Moriah Taylor (she/her) @moriah_taylor58 · May 21, 2021

...

Replying to @DrMaru_

So do I 🙌



1



Sebastien Mitea 🇵🇸 @SebMitea · May 22, 2021

...

Replying to @moriah_taylor58

Thank you and great job! 🙌





John Evans @eeijevs@mastodon.ie @eeijevs · May 27, 2021

...

Replying to @moriah_taylor58

Uae [#RStats](#) for data viz? You need this thread so you dont lose the [#colourblind](#) in your target audience..



↻ 2



José Manuel Cuevas @JoseManCuevas · May 21, 2021

...

Replying to @moriah_taylor58

[@MafeCafe](#)



↻

♡ 1



Alejandra Torres León @_Alejandra_T · May 20, 2021

...

Replying to @moriah_taylor58

[@epalaarepaaa](#) me morí con este hilo

💬 1



Esteban con frío @epalaarepaaa · May 20, 2021

...

Replying to @_Alejandra_T and @moriah_taylor58

MK AMO ESTO aunque nunca lo volví a usar espero hacerlo cuando trabaje, quedé cuando ví que se pueden hacer mapas de relieve en stata, btw, [@hapkida_](#) esto te va a gustar

💬 1



♡ 3



Show replies



Tessa Smith @TessaSmith_ · Jun 3, 2021

...

Replying to @moriah_taylor58

this is amazing



Eleah Stringer * RD @EleahStringer · May 21, 2021

...

Replying to @moriah_taylor58 and @hwhiteman

@goforrob instantly thought of you 🤔



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Rob Higgins @goforrob · May 21, 2021



Replying to @EleahStringer @moriah_taylor58 and @hwitteman
Hahaha I still have my word doc of all the base pkg colours 🤔



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Sydney Byrns @sydbyrns · May 21, 2021



Replying to @moriah_taylor58

This is such a helpful thread! (maybe you all knew this already but I'm a newbie) @jazzrhoades @RachelSSteenon @Doug_Being_Doug



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4



Jazz Rhoades @jazzrhoades · May 21, 2021



Replying to @sydbyrns @moriah_taylor58 and 2 others

Ooh I never knew about the colourblindR package! Great thread (although sadly superseded by my recent retweet)



1



3



Show replies



Stephanie Peacock @peacock_steph · May 20, 2021



Replying to @moriah_taylor58

Always!!



1



Dr. Birko-Katarina Ruzicka @lets_boldly_go · May 21, 2021



Replying to @moriah_taylor58

wow! thank you so much! so many new resources, they're all going into my (already substantial) collection on how-to-use-color-in-scicom 🎨🧑



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Jamon Van Den Hoek @JamonVDH · May 20, 2021





Replying to @moriah_taylor58

Great resources! there's also ColorBrewer, which is targeted for cartographers/mappers but has a smaller pool of palettes to choose from colorbrewer2.org



4



Marianna Zhang @marianna_zhang · May 21, 2021



Replying to @moriah_taylor58

not R specific, but I like color.adobe.com as well for finding pre-existing color palettes and creating your own color palette (with colorblind friendly settings)! you can save the hex codes for the palette as a vector and use them in eg `scale_fill_manual()`



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Nadia Fernandez @TheNadiaFern · May 21, 2021



Replying to @moriah_taylor58

Not sure if it's up to date with the latest versions of R, but there is a Beyoncé R palette as well: beyoncepalettes.tumblr.com. GitHub link: github.com/dill/beyonce



beyoncepalettes.tumblr.com

[beyoncepalettes](https://beyoncepalettes.tumblr.com)

[beyoncepalettes](https://beyoncepalettes.tumblr.com)



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Ilana Pilato, PhD @IlanaPilato · May 20, 2021



Replying to @moriah_taylor58

[@PilatoSteven](#)



exponentially tight @tight_exponent · May 21, 2021



Replying to @moriah_taylor58

A timely release!

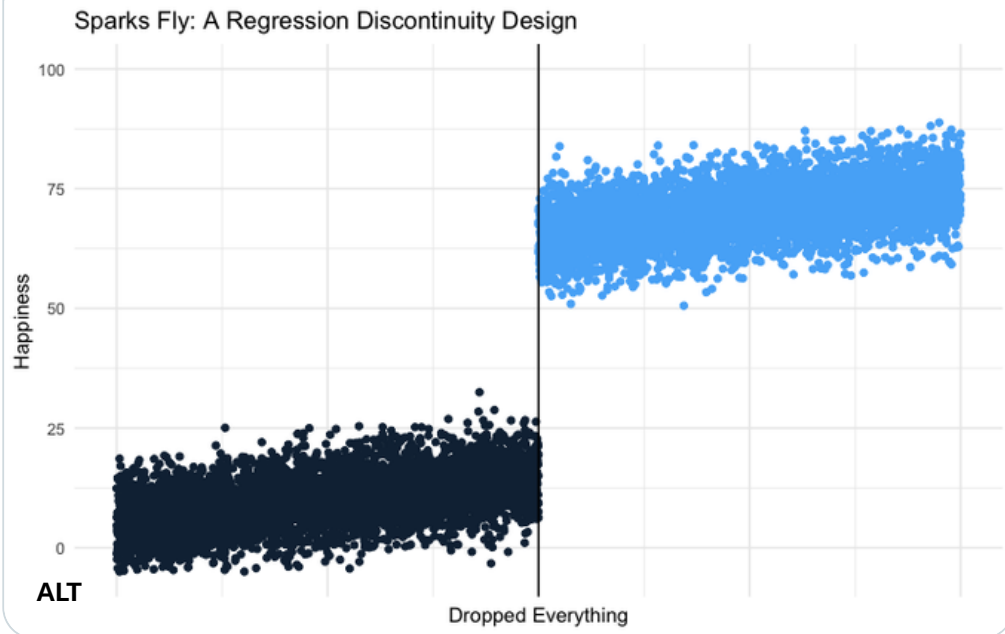


Alex Stephenson [astephenson at eco...](#) @adaste... · May 21, 2021

Hi all, I'm pleased to announce {taylorSwift}, a new #rstats package that lets you style ggplots based on #TaylorSwift TS album color palettes, available at [github.com/asteves/taylorR...](https://github.com/asteves/taylorR)

Give it a try with the dev version:

```
remotes::install_github("asteves/taylorRswift")
```



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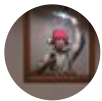


preet kaur @preetk8_ · May 21, 2021



Replying to @moriah_taylor58 and @NeedhiBhalla

i like coolours.co!! this website has premade color palettes(along with their hex formulas)!



Wilfrid Somogyi @WilfSum · May 21, 2021



Replying to @moriah_taylor58

This is another good resource I use for choosing/creating colourblind friendly palettes. It explains a bit about why certain colour combinations work, and why others don't, and has useful visualisations of how the palettes appear to colourblind people.

mkweb.bcgsc.ca/colorblind/



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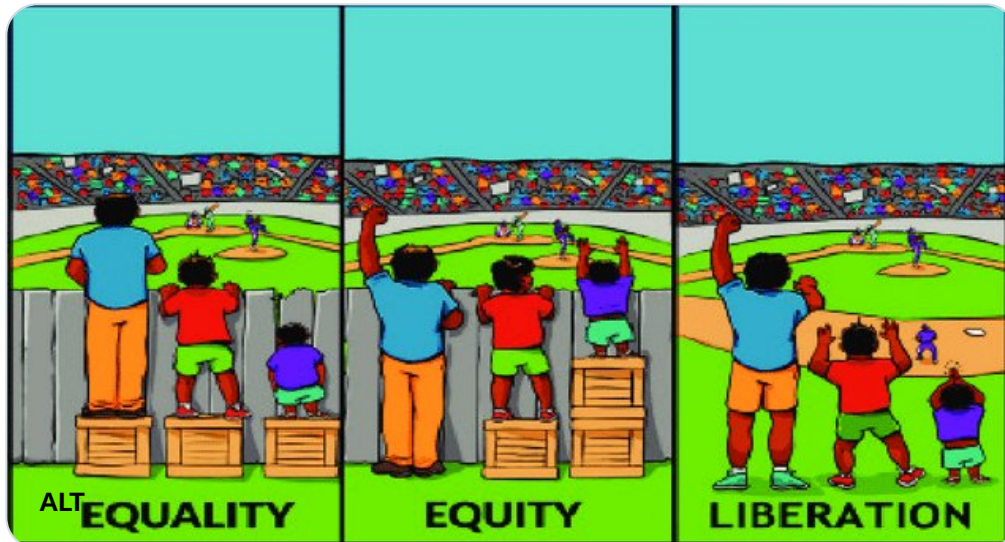


Dr Liz Finding @DrFinding · May 22, 2021

...

Replying to @moriah_taylor58

Such an informative thread about the huge range of colour palettes available to you using R. The best way to practice inclusivity is to find something that works for everyone, this thread helps with that



Jeff Lidz @JeffLidz · May 21, 2021

...

Replying to @moriah_taylor58

This is awesome! As a colorblind person, I'll add that many of the colorblind palettes are still problematic because often you get colors that are clearly distinct for the colorblind, but not easily nameable or easily name switched.
1/



Jeff Lidz @JeffLidz · May 21, 2021

...

Replying to @JeffLidz and @moriah_taylor58

Often students who know I'm colorblind will pick one of these palettes and end up with, say, a green line and an orange line that I can easily distinguish visually but often get the names backwards, which helps no one!



Show replies



Joshua French @J0shua_French · May 21, 2021

...

Replying to @moriah_taylor58

Don't forget the excellent colorspace package, which is related to a lot of

color updates in R 4.0.0. cran.r-project.org/web/packages/c...



Alexander Rose @alexanderhrose · May 20, 2021



Replying to @moriah_taylor58

[@threadreaderapp](#) unroll this please.



2



3



Thread Reader App @threadreaderapp · May 20, 2021



Replying to @alexanderhrose

Hola, the unroll you asked for: Having trouble picking a color palette for your [#Rstats](#)... threadreaderapp.com/thread/1395431... Have a good day.



Thread reader



Thread by Moriah Taylor (she/her) (@moriah_taylor58), 20 May

Having trouble picking a color palette for your [#Rstats](#) visualization? Well here's a MEGA thread about all the ways you can choose a palette! 🧵 [1/2...



threadreaderapp.com

Thread by @moriah_taylor58 on Thread Reader App

Thread by @moriah_taylor58: Having trouble picking a color palette for your [#Rstats](#) visualization? Well here's a MEGA thread about all the ...



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Irene Stratton @I_M_Stratton · May 21, 2021



Replying to @moriah_taylor58

Reading the books by [@EdwardTufte](#) will also improve your graphs and figures.





@viridiano@Scholar.Social @viridiano · May 22, 2021



Replying to @moriah_taylor58

[@threader_app](#) compile



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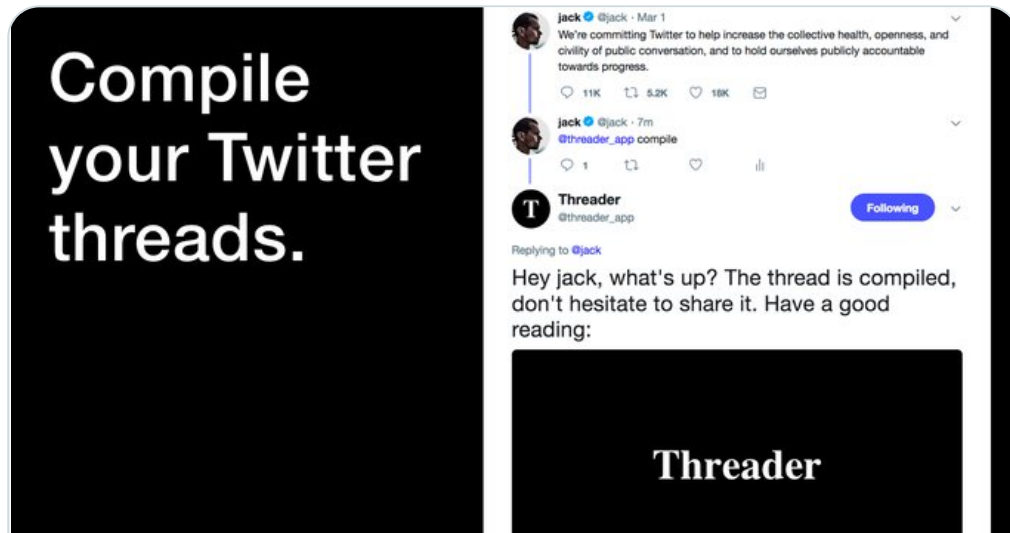


Threader @threader · May 22, 2021



Replying to @viridiano

Hey, the thread is ready and compiled. You can read the whole version here: threader.app/thread/1395431... [#Rstats](#)



threader.app

Threader - Good threads every day

Get a selection of good threads from Twitter every day



Robert Edmonds, PhD @stormchaseguide · May 21, 2021



Replying to @moriah_taylor58 and @science_ari

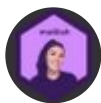
Need for color blind friendly palate/figure can come up in the comments when your paper is being peer reviewed.



1



You're unable to view this Tweet because this account owner limits who can view their Tweets. [Learn more](#)



Moriah Taylor (she/her) @moriah_taylor58 · May 21, 2021



Replying to @jazz_croft

Thank you!!



You're unable to view this Tweet because this account owner limits who can view their Tweets. [Learn more](#)



Trevor Williams @trevfw · May 21, 2021



Replying to @StacyyMay and @moriah_taylor58

Yeah this tweet is why I started talking about R color palettes earlier!

