

Package: transformerpalettes (via r-universe)

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Title Color Palettes Inspired by Transformers Toys, Cartoons and Comics

Version 0.4.0

Description Color palettes drawn from the Transformers franchise, centered on the 1984-1989 Generation 1 toys and extending to their Generation 2 re-releases, the cartoon animation models and the Marvel comics. Covers the leaders, every member and combined form of the combiner teams (Aerialbots, Protectobots, Technobots, Constructicons, Stunticons, Combaticons, Terrorcons, Predacons, Seacons, Pretender Monsters and Breastforce), the Dinobots, the Seeker jets, Soundwave and the cassettes, the Insecticons, the 1984 Autobot cars and Mini Vehicles and the 1986 movie cast, with separate palettes for the toy, the cartoon animation model, the Marvel comic coloring and the Generation 2 re-release where each exists. Includes 'ggplot2' color and fill scales for discrete and continuous data, team palettes that take one color from each member of a combiner team, metadata linking each palette to its character, faction, team and reference page, and helpers to shortlist palettes that suit categorical, color-blind-safe, sequential or diverging use. Hex values are approximations of the toys' plastic and paint colors; the package is a fan project and is not affiliated with or endorsed by Hasbro or Takara Tomy.

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Author Brian Maitner [aut, cre]

Maintainer Brian Maitner <bmaitner@gmail.com>

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Contents

scale_tf	2
tf_characters	5
tf_credit	6
tf_find_palettes	7
tf_media	9
tf_palette	9
tf_palette_names	11
tf_palette_stats	11
tf_palettes	12
tf_pick	13
tf_show_palettes	15
tf_team_palette	16
Index	18

scale_tf	<i>Transformers color and fill scales for ggplot2</i>
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Description

Color and fill scales that use a character’s palette. The `_d` variants are for discrete data, the `_c` variants for continuous data, and `scale_colour_tf()` / `scale_fill_tf()` choose between the two with the `discrete` argument. `scale_color_*` spellings are aliases.

Usage

```
scale_colour_tf_d(  
  palette = "optimus_prime",  
  reverse = FALSE,  
  medium = "toy",  
  ...  
)  
  
scale_fill_tf_d(  
  palette = "optimus_prime",  
  reverse = FALSE,  
  medium = "toy",  
  ...  
)  
  
scale_colour_tf_c(  
  palette = "optimus_prime",  
  reverse = FALSE,  
  sort = FALSE,  
  medium = "toy",  
  ...  
)  
  
scale_fill_tf_c(  
  palette = "optimus_prime",  
  reverse = FALSE,  
  sort = FALSE,  
  medium = "toy",  
  ...  
)  
  
scale_colour_tf(  
  palette = "optimus_prime",  
  discrete = TRUE,  
  reverse = FALSE,  
  sort = FALSE,  
  medium = "toy",  
  ...  
)  
  
scale_fill_tf(  
  palette = "optimus_prime",  
  discrete = TRUE,  
  reverse = FALSE,  
  sort = FALSE,  
  medium = "toy",  
  ...  
)
```

```

scale_color_tf_d(
  palette = "optimus_prime",
  reverse = FALSE,
  medium = "toy",
  ...
)

scale_color_tf_c(
  palette = "optimus_prime",
  reverse = FALSE,
  sort = FALSE,
  medium = "toy",
  ...
)

scale_color_tf(
  palette = "optimus_prime",
  discrete = TRUE,
  reverse = FALSE,
  sort = FALSE,
  medium = "toy",
  ...
)

```

Arguments

palette	Name of a character's palette. See tf_palette_names() .
reverse	Logical. Reverse the order of colors in the palette?
medium	Which version of the character to use: "toy" (default), "cartoon" or "comic". See tf_media() .
...	Additional arguments passed on to ggplot2::discrete_scale() (discrete) or ggplot2::scale_colour_gradientn() / ggplot2::scale_fill_gradientn() (continuous).
sort	Logical, continuous scales only. Order the palette from darkest to lightest before building the gradient, so the scale reads as low-to-high. See tf_find_palettes() for palettes that suit this.
discrete	Logical. If TRUE (default) build a discrete scale, otherwise a continuous gradient scale.

Details

Discrete scales draw the first *n* colors of the palette, where *n* is the number of levels in the data. If the data has more levels than the palette has colors, the palette is interpolated with [grDevices::colorRampPalette\(\)](#) so that every level still receives a distinct color; expect the result to be less legible than the curated colors. For a palette with one color per member of a combiner team, pass [tf_team_palette\(\)](#) to [ggplot2::scale_colour_manual\(\)](#).

Value

A ggplot2 scale object.

Examples

```
library(ggplot2)

ggplot(mpg, aes(displ, hwy, colour = drv)) +
  geom_point(size = 3) +
  scale_colour_tf("optimus_prime")

ggplot(mpg, aes(displ, hwy, colour = drv)) +
  geom_point(size = 3) +
  scale_colour_tf("optimus_prime", medium = "cartoon")

ggplot(diamonds, aes(cut, fill = clarity)) +
  geom_bar() +
  scale_fill_tf_d("bruticus")

ggplot(faithfuld, aes(waiting, eruptions, fill = density)) +
  geom_tile() +
  scale_fill_tf_c("hot_spot", sort = TRUE)
```

tf_characters	<i>Transformers character metadata</i>
---------------	--

Description

Background information for every palette in [tf_palettes](#): the character, which medium the palette records (toy, cartoon, comic or Generation 2 re-release), its faction, the combiner team and combined form it belongs to, its role in that team, its alternate mode, the year of the reference, a description of the colors, and links to the reference page and image on the Transformers Wiki.

Usage

```
tf_characters
```

Format

A data frame with one row per palette and the columns:

palette Palette name, as used by [tf_palette\(\)](#). Unique.

base The character's toy palette name, shared by all of that character's palettes across media (e.g. "optimus_prime" for both optimus_prime and optimus_prime_cartoon).

medium "toy", "cartoon", "comic" or "g2". See [tf_media\(\)](#).

character Character name as printed on the toy's packaging.

faction "Autobot" or "Decepticon". See [tf_factions\(\)](#).

- team** Combiner team or subgroup, e.g. "Aerialbots" or "Seekers", or NA for characters that are not part of one. See `tf_teams()`.
- combiner** Base palette name of the team's combined form, e.g. "superion", or NA for leaders and for subgroups that do not combine.
- role** One of "leader", "standalone" (a character outside any team), "combiner torso", "combiner limb", "combined form" or "subgroup member" (Dinobots, Seekers, Cassettes, Insecticons, Autobot Cars, Minibots).
- alt_mode** The character's alternate mode.
- year** Year of the reference: the original Hasbro release for toy palettes, the character's first appearance for cartoon and comic palettes.
- n_colours** Number of colors in the palette.
- description** Description of the colors in that medium.
- source** URL of the character's page on the Transformers Wiki, with an anchor to the relevant section for cartoon and comic palettes.
- image** Direct URL of the reference image the palette was checked against (a toy photo, an episode still, or a comic panel), hosted by the Transformers Wiki, or NA where none has been identified yet.

Source

Transformers Wiki, https://tfwiki.net/wiki/Main_Page.

Examples

```
head(tf_characters)
table(tf_characters$team, tf_characters$medium)
subset(tf_characters, base == "megatron", c(palette, medium, description))
```

tf_credit

Credit the rights holders behind a plot's colors

Description

Builds a short attribution sentence naming the characters whose palettes were used and where their colors come from (the Hasbro and Takara Tomy toys, the Generation 1 animated series, or the Marvel comics), suitable for a figure caption or an acknowledgments section. Naming the source of a color scheme is ordinary factual attribution; the longer form also states that the colors are approximations and imply no endorsement, which is the wording journals tend to want.

Usage

```
tf_credit(
  x,
  format = c("caption", "acknowledgment", "markdown"),
  package = TRUE,
  medium = "toy"
)
```

Arguments

x	What to credit: a palette name, a character vector of names, or a <code>tf_palette</code> object. Objects from <code>tf_pick()</code> and <code>tf_team_palette()</code> carry their source palettes, so the credit covers every character that contributed a color. Names may carry a medium suffix ("megatron_cartoon") or rely on medium.
format	One of: "caption" One sentence for a figure caption, e.g. Colors: Optimus Prime toy colorway by Hasbro a "acknowledgment" Two sentences in the register of an acknowledgments section, naming the sources and stating that the hex values are approximations that imply no endorsement. "markdown" The caption with each character linked to its Transformers Wiki reference page, for R Markdown, Quarto or pkgdown captions.
package	Logical. Mention the transformerpalettes package? Set to FALSE when the package is cited elsewhere in the text.
medium	Medium for plain palette names; see <code>tf_media()</code> .

Value

A single character string.

See Also

[tf_characters](#) for the underlying metadata; `citation("transformerpalettes")` for the package reference.

Examples

```
tf_credit("optimus_prime")
tf_credit(c("optimus_prime", "megatron_cartoon", "megatron_comic"))
tf_credit(tf_team_palette("Stunticons"))
tf_credit(tf_pick(c("optimus_prime", "megatron"), n = 4))
tf_credit("optimus_prime", format = "acknowledgment")
cat(tf_credit(c("optimus_prime", "megatron"), format = "markdown"))

library(ggplot2)
ggplot(mpg, aes(displ, hwy, color = drv)) +
  geom_point(size = 2.5) +
  scale_color_tf("optimus_prime") +
  labs(caption = tf_credit("optimus_prime"))
```

tf_find_palettes

Find Transformers palettes that suit a plotting use case

Description

Filters the palettes to those whose colors work for a given job, judged from the perceptual statistics in `tf_palette_stats()`. Many toys look great on a figure but poor on a chart; this surfaces the ones that hold up.

Usage

```
tf_find_palettes(
  use = c("categorical", "colorblind", "sequential", "diverging"),
  faction = NULL,
  team = NULL,
  role = NULL,
  medium = "toy",
  min_colours = 4
)
```

Arguments

use	One of: "categorical" Every pair of colors is clearly distinguishable (minimum Lab distance of 20 or more). Good for unordered groups. "colorblind" Categorical, and still distinguishable under simulated deuteranopia, protanopia and tritanopia (minimum distance 15 or more in each). "sequential" One hue family (hue spread of 45 degrees or less among the chromatic colors) spanning at least 50 units of lightness, so a continuous gradient reads as low-to-high. Pair with sort = TRUE in tf_palette() or the <code>_c</code> scales. "diverging" Exactly two distinct hue families plus a light or neutral color to sit between them. The curated order is not necessarily dark-A, light, dark-B; check tf_palette_stats() and reorder the colors yourself for a continuous diverging scale. The thresholds are deliberately simple heuristics computed by tf_palette_stats(); treat the result as a shortlist to look at with tf_show_palettes(), not a guarantee.
faction, team, role, medium	Optional filters passed to tf_palette_names(). medium defaults to "toy"; use "all" to search cartoon and comic palettes too.
min_colours	Minimum number of colors the palette must have.

Value

A character vector of palette names, ordered so that the strongest candidates for the use case come first.

Examples

```
tf_find_palettes("colorblind")
tf_find_palettes("diverging", faction = "Decepticon")
tf_find_palettes("sequential")
tf_find_palettes("colorblind", medium = "cartoon")
```

tf_media	<i>List the media, factions and combiner teams in transformerpalettes</i>
----------	---

Description

List the media, factions and combiner teams in transformerpalettes

Usage

```
tf_media()

tf_factions()

tf_teams(faction = NULL)
```

Arguments

faction Optional faction to restrict tf_teams() to; see [tf_factions\(\)](#).

Value

tf_media() returns the media a palette can record, in the order "toy" (the original Generation 1 release), "cartoon" (the animation model), "comic" (Marvel) and "g2" (the Generation 2 re-release of the toy in new colors, 1992-1994). tf_factions() returns a character vector of faction names. tf_teams() returns a character vector of team and subgroup names, in package order (Autobot teams first). All can be passed to the matching argument of [tf_palette_names\(\)](#), [tf_show_palettes\(\)](#) and [tf_find_palettes\(\)](#).

Examples

```
tf_media()
tf_factions()
tf_teams()
tf_teams(faction = "Decepticon")
```

tf_palette	<i>Get colors from a character's palette</i>
------------	--

Description

Returns n colors from the named character's palette, either the first n curated colors (type = "discrete") or n colors interpolated across the whole palette (type = "continuous").

Usage

```
tf_palette(
  name,
  n = NULL,
  type = c("discrete", "continuous"),
  strict = TRUE,
  sort = FALSE,
  medium = "toy"
)
```

Arguments

name	Palette name. Case-insensitive, and spaces or hyphens may stand in for under-scores, so "Optimus Prime" and "Hun-Gurrr" work. See tf_palette_names() . A full name with a medium suffix ("megatron_cartoon") also works and takes precedence over medium.
n	Number of colors wanted. Defaults to every color in the palette.
type	Either "discrete" (default) to return the curated colors as they are, or "continuous" to interpolate n colors across the palette with grDevices::colorRampPalette() .
strict	Logical. For discrete palettes, error when n exceeds the number of curated colors (default). If FALSE, interpolate to n colors instead.
sort	Logical. If TRUE, order the colors from darkest to lightest (by CIE lightness) before selecting or interpolating. Useful when a palette is used as a sequential gradient; see tf_find_palettes() .
medium	Which version of the character to use: "toy" (default), "cartoon", "comic" or "g2". See tf_media() . Errors with a pointer to the wishlist if the character has no palette in that medium.

Value

A character vector of hex colors with class "tf_palette", which has a print method that draws the swatches.

Examples

```
tf_palette("optimus_prime")
tf_palette("optimus_prime", medium = "cartoon")
tf_palette("Megatron", 3, medium = "comic")
tf_palette("devastator", medium = "g2")
tf_palette("devastator", 12, type = "continuous")
tf_palette("hot_spot", 12, type = "continuous", sort = TRUE)

# base graphics
barplot(1:5, col = tf_palette("predaking"))
```

tf_palette_names	<i>List the available palettes</i>
------------------	------------------------------------

Description

List the available palettes

Usage

```
tf_palette_names(faction = NULL, team = NULL, role = NULL, medium = "toy")
```

Arguments

faction	Optional faction (see tf_factions()) to restrict the list to. Matched case-insensitively and by unique prefix, so "auto" works.
team	Optional team or subgroup (see tf_teams()) to restrict the list to, matched the same way.
role	Optional role to restrict the list to: one of "leader", "combiner torso", "combiner limb", "combined form" or "subgroup member", matched the same way.
medium	Which medium's palettes to list: "toy" (default), "cartoon", "comic", "g2", or "all" for every palette regardless of medium. See tf_media() .

Value

A character vector of palette names accepted by [tf_palette\(\)](#) and the `scale_*_tf()` functions.

Examples

```
tf_palette_names()
tf_palette_names(faction = "Decepticon")
tf_palette_names(team = "Aerialbots", medium = "cartoon")
tf_palette_names(role = "leader", medium = "all")
```

tf_palette_stats	<i>Perceptual statistics for every Transformers palette</i>
------------------	---

Description

Computes, from the hex colors alone, how suitable each palette is for the common plotting jobs. Used by [tf_find_palettes\(\)](#); exposed so you can apply your own thresholds.

Usage

```
tf_palette_stats(names = tf_palette_names(medium = "all"))
```

Arguments

names Palette names to compute for. Defaults to every palette in every medium.

Details

Distances are CIE76 (Euclidean in CIE Lab). Color-vision deficiency is simulated with the Machado, Oliveira and Fernandes (2009) matrices at full severity for deuteranopia, protanopia and tritanopia. Hue statistics only consider colors with chroma of at least 20, so grays and blacks do not count as a hue.

Value

A data frame with one row per palette and the columns:

palette Palette name.

n_colours Number of colors.

min_de Smallest pairwise Lab distance between any two colors. Larger is easier to tell apart; 20 is a comfortable floor for categorical use.

min_de_deutan, min_de_protan, min_de_tritan The same after simulating each color-vision deficiency.

lum_range Range of CIE lightness (0 to 100) across the palette.

hue_spread Angular spread of the chromatic colors' hues, in degrees. Near 0 means one hue family.

hue_clusters Number of distinct hue families (hues separated by more than 60 degrees).

has_light Whether the palette contains a light or neutral color that can serve as a midpoint.

categorical, colorblind, sequential, diverging Logical flags as used by [tf_find_palettes\(\)](#).

Examples

```
s <- tf_palette_stats()
head(s[order(-s$min_de_deutan), c("palette", "min_de", "min_de_deutan")])
```

tf_palettes	<i>Transformers palettes</i>
-------------	------------------------------

Description

A named list of color palettes covering the Transformers cast from the 1984 Generation 1 toys onward: the leaders, every member and combined form of the combiner teams, the Dinobots, Seekers, cassettes, Insecticons, the 1984 Autobot cars and Mini Vehicles, and the 1986 movie cast. Each character has a palette for the original toy, most have one for the cartoon, many have one for the Marvel comic, and the three combiner teams Hasbro re-released in Generation 2 have one for that; see the medium column of [tf_characters](#). Each element is a character vector of four to six hex colors ordered so that the first few are the most distinct from one another (body color first, then secondary color, then accents). Use [tf_palette\(\)](#) to pull colors from a palette, [tf_team_palette\(\)](#) to take one color from each member of a combiner team, and [tf_characters](#) for background on each character.

Usage

```
tf_palettes
```

Format

A named list of character vectors of hex colors.

Details

Toy palettes are named after the character (optimus_prime); cartoon and comic palettes carry a suffix (optimus_prime_cartoon, optimus_prime_comic). Hex values are approximations: toy colors were curated by eye from product photography on the Transformers Wiki (https://tfwiki.net/wiki/Main_Page) and the toys' published color descriptions, cartoon colors from the animation models as they appear in episode stills, and comic colors from the character's early Marvel appearances. Chrome and die-cast parts do not reduce to a single flat color; those entries reflect how the part photographs.

See Also

[tf_palette\(\)](#), [tf_palette_names\(\)](#), [tf_media\(\)](#), [tf_teams\(\)](#), [tf_characters](#), [tf_show_palettes\(\)](#)

Examples

```
length(tf_palettes)
tf_palettes$optimus_prime
tf_palettes$optimus_prime_cartoon
tf_palettes$devastator
```

tf_pick

Pick the most distinguishable colors from one or more palettes

Description

Pools the colors of the named palettes and selects the *n* that are hardest to confuse with one another on a given kind of plot: light background, dark background, or output that will be read in grayscale. Optionally judges distinctness under simulated color-vision deficiency. Use it when a single character's palette does not have enough usable colors, or when you want a team's or a faction's colors but only the ones that hold up on a chart.

Usage

```
tf_pick(
  palettes,
  n = 5,
  style = c("light", "dark", "grayscale"),
  colorblind = FALSE,
  medium = "toy",
  background = NULL,
```

```

    min_contrast = 3
  )

```

Arguments

palettes	Character vector of one or more palette names; see <code>tf_palette_names()</code> . Team names are not accepted; use <code>tf_palette_names(team = ...)</code> to expand a team.
n	Number of colors wanted.
style	One of "light" (white background), "dark" (near-black background) or "grayscale" (white background, judged by lightness alone).
colorblind	Logical. Require the colors to stay distinct under simulated deuteranopia, protanopia and tritanopia?
medium	Medium for plain palette names; see <code>tf_media()</code> .
background	Optional background color overriding the one implied by style, as a hex string.
min_contrast	Minimum WCAG 2 contrast ratio a color must have against the background to be considered. Set to 1 to disable the filter.

Details

The selection runs in three steps.

1. **Pool.** The colors of every palette in `palettes` are combined, with duplicates removed. Names may be plain ("optimus_prime") or carry a medium suffix ("optimus_prime_cartoon"); plain names use medium.
2. **Filter for the background.** Colors whose WCAG 2 contrast ratio against the background is below `min_contrast` are dropped, so a light-mode selection never contains a near-white and a dark-mode selection never contains a near-black. The background is white for "light" and "grayscale" and near-black ("121212") for "dark" unless background is given. The default of 3 is the WCAG minimum for graphical objects; lower it to keep more colors, raise it for text.
3. **Choose.** Every pair of remaining colors is scored by its distance in CIE Lab (CIE76). With `colorblind = TRUE` the distance is the smallest of the normal-vision distance and the distances after simulating deuteranopia, protanopia and tritanopia (Machado, Oliveira and Fernandes 2009), so two colors only count as distinct if every viewer can tell them apart. With `style = "grayscale"` only the lightness difference counts, so the colors survive conversion to gray. The `n` colors whose closest pair is farthest apart are chosen (a maximum-dispersion subset, found exhaustively when the pool is small and by greedy seeding plus swap search otherwise), then ordered so that each color is as different as possible from those before it.

The result is a categorical palette: it does not try to build a gradient. The smallest pairwise distance in the selection is returned as the `min_distance` attribute; values above about 20 are comfortably distinct, and below about 12 two colors will be hard to tell apart. If the pool cannot supply `n` colors after filtering, the function errors and says how many it had, so add palettes or lower `min_contrast`.

Value

A character vector of `n` hex colors with class "tf_palette", named by the palette each color came from, and with attributes `min_distance` (smallest pairwise distance under the chosen criterion), `style`, `colorblind` and `background`.

See Also

`tf_find_palettes()` to shortlist whole palettes instead; `tf_palette_stats()` for the underlying measures.

Examples

```
# five colors for a white-background plot, from the two leaders
tf_pick(c("optimus_prime", "megatron"), n = 5)

# the same for a dark theme, and color-blind safe
tf_pick(c("optimus_prime", "megatron"), n = 4, style = "dark", colorblind = TRUE)

# a whole team, cartoon colors, printable in grayscale
tf_pick(tf_palette_names(team = "Combaticons"), n = 4,
        style = "grayscale", medium = "cartoon")

library(ggplot2)
cols <- tf_pick(tf_palette_names(team = "Predacons"), n = 3, colorblind = TRUE)
ggplot(mpg, aes(displ, hwy, colour = drv)) +
  geom_point(size = 2.5) +
  scale_colour_manual(values = unname(cols)) +
  theme_minimal()
```

tf_show_palettes	<i>Display Transformers palettes</i>
------------------	--------------------------------------

Description

Draws a swatch strip for each palette on the current graphics device, labeled with the palette name and, by default, the hex code under each swatch. Useful for picking a character or for reporting a color that looks wrong. With no arguments every toy palette is drawn, which is a lot; filter by faction, team, role or use to narrow it down, or pass a character's palettes across media to compare them.

Usage

```
tf_show_palettes(
  names = NULL,
  faction = NULL,
  team = NULL,
  role = NULL,
  use = NULL,
  medium = "toy",
  ncol = 3,
  hex = TRUE
)
```

Arguments

names	Optional character vector of palette names to show. Defaults to every palette matching the other filters.
faction	Optional faction to restrict to; see tf_factions() .
team	Optional combiner team to restrict to; see tf_teams() .
role	Optional role to restrict to; see tf_palette_names() .
use	Optional use case to restrict to; see tf_find_palettes() .
medium	Which medium's palettes to show: "toy" (default), "cartoon", "comic" or "all". Ignored when names is given.
ncol	Number of columns to arrange the swatch strips in.
hex	Logical. Print the hex code under each swatch?

Value

Invisibly, the character vector of palette names that were drawn.

Examples

```
tf_show_palettes(team = "Aerialbots")
tf_show_palettes(team = "Aerialbots", medium = "cartoon")
tf_show_palettes(faction = "Decepticon", role = "combined form", ncol = 2)
tf_show_palettes(use = "colorblind", ncol = 4)
tf_show_palettes(c("megatron", "megatron_cartoon", "megatron_comic"), ncol = 1)
```

tf_team_palette	<i>One color per member of a team</i>
-----------------	---------------------------------------

Description

Builds a categorical palette for a combiner team or subgroup by taking one color from each member, in the team's order (torso first, then limbs, for a combiner team). Each color is named after the member it came from, so the palette doubles as a legend.

Usage

```
tf_team_palette(
  team,
  which = 1L,
  distinct = FALSE,
  combined = FALSE,
  medium = "toy"
)
```

Arguments

team	Combiner team name; see <code>tf_teams()</code> . Matched case-insensitively and by unique prefix.
which	Which color to take from each member's palette when <code>distinct = FALSE</code> . 1 (the default) is the body color; 2 the secondary color, and so on. Members with fewer colors than which fall back to their last color.
distinct	Logical. Choose each member's color to be as different as possible from those already chosen? See Details.
combined	Logical. Include the team's combined form as the last color?
medium	Which version of the team to use: "toy" (default), "cartoon" or "comic". Errors if any member lacks a palette in that medium.

Details

By default the body color of each member is used, which is faithful but collapses for teams cast from shared plastics: every Constructicon is the same green, three Protectobots are white, and so on. With `distinct = TRUE` each member instead contributes the color from its palette that is furthest (in CIE Lab) from the colors already chosen for the members before it, so the palette stays legible while every color is still one the member actually wears. The Stunticons, Combaticons and Terrorcons are distinct either way; for the others `distinct = TRUE` is the useful setting. Check the result with `tf_palette_stats()` on the returned colors if legibility matters.

Value

A named character vector of hex colors with class "tf_palette".

Examples

```
tf_team_palette("Stunticons")
tf_team_palette("Seekers")
tf_team_palette("Aerialbots")
tf_team_palette("Aerialbots", distinct = TRUE)
tf_team_palette("Predacons", which = 2)
tf_team_palette("Combaticons", medium = "cartoon")

library(ggplot2)
ggplot(mpg, aes(displ, hwy, colour = drv)) +
  geom_point() +
  scale_colour_manual(values = unname(tf_team_palette("Stunticons")))
```

Index

* datasets

tf_characters, 5
tf_palettes, 12

ggplot2::discrete_scale(), 4
ggplot2::scale_colour_gradientn(), 4
ggplot2::scale_colour_manual(), 4
ggplot2::scale_fill_gradientn(), 4
grDevices::colorRampPalette(), 4, 10

scale_color_tf(scale_tf), 2
scale_color_tf_c(scale_tf), 2
scale_color_tf_d(scale_tf), 2
scale_colour_tf(scale_tf), 2
scale_colour_tf_c(scale_tf), 2
scale_colour_tf_d(scale_tf), 2
scale_fill_tf(scale_tf), 2
scale_fill_tf_c(scale_tf), 2
scale_fill_tf_d(scale_tf), 2
scale_tf, 2

tf_characters, 5, 7, 12, 13
tf_credit, 6
tf_factions(tf_media), 9
tf_factions(), 5, 9, 11, 16
tf_find_palettes, 7
tf_find_palettes(), 4, 9–12, 15, 16
tf_media, 9
tf_media(), 4, 5, 7, 10, 11, 13, 14
tf_palette, 9
tf_palette(), 5, 8, 11–13
tf_palette_names, 11
tf_palette_names(), 4, 8–10, 13, 14, 16
tf_palette_stats, 11
tf_palette_stats(), 7, 8, 15, 17
tf_palettes, 5, 12
tf_pick, 13
tf_pick(), 7
tf_show_palettes, 15
tf_show_palettes(), 8, 9, 13

tf_team_palette, 16
tf_team_palette(), 4, 7, 12
tf_teams(tf_media), 9
tf_teams(), 6, 11, 13, 16, 17