A scientist's guide to making nice-looking presentations

**N.B. you're on your own with content



before getting started

Got PowerPoint open already?

Close it

It'll just distract you

Get in the right frame of mind.

Close your eyes and repeat the following:

"Making presentations is fun and I will enjoy it"

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"Making presentations is fun and I will enjoy it"



THE VIBE

Decide on the ~vibe~ of your presentation

The vibe is everything. Some things to consider:

- 1. What are you presenting? Squirrel ecology? Cancer treatment?
- 2. Who is your audience? Peers? Hiring committee? Students? Public?
- 3. Where are you presenting? Conference? Classroom? Lab meeting?

vibezz

Default

"Ya, I had to make this presentation..."

Black text on white, Calibri font

> Empty space Stripe breaks up slide

Simple and sleek

I'm going to tell you something important

Big round title font Bold colorful background

Relaxed

This is serious but you can laugh



Achieve your vibe by manipulating:

FONT

COLOR

whitespace

SIZES OF THINGS

^{*}Funnily enough, these are also the ways to emphasize points.

Ok you can open PowerPoint now

- Not
- too
- many
- bullet points

 - And no sub bullet points
 according to some people

Bunched up paragraphs are hard for people to read and listen to you at the same time, so

keep text to a minimum

add more space between lines

let your slide breathe

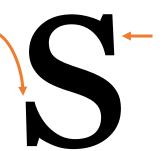
Don't use words when a diagram will do the job better "We transferred worms to a new plate"

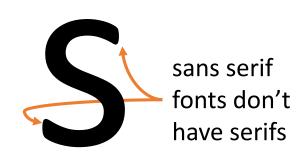




"A font speaks 1000 words" - a very old proverb, I'm sure

serif fonts have **serifs**(those overhanging lines on the ends of letters)





Sans serifs

Are more chill and modern

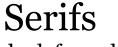
Sans serif fonts are preferable for reading off screens (websites, presentations)

Serif fonts are better on **paper**.

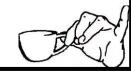
It's ok to use serif fonts sparingly onscreen, e.g. headings.

A mix

Is nice, though.



Make things look formal and fancy



choosing a font

Think back to your vibe. What are you going for?

Fun and quirky!

Minimal & modern

High school essay

I hate making presentations¹

Computer code

Drinking tea in the 1800s

Horror

Simple & effective

¹Calibri isn't a bad font, just overused.

How do I choose the right font?

There's not one right answer to this question, but there are wrong ones.

• Stay away from handwritten, script, or otherwise stylized fonts unless they're for a specific purpose: they're hard to read.

· And for the love of god, comic sans is never the font you want.

PAIRING FONTS

Peanut butter And jelly

Keep things interesting by using different fonts!

Two peas

In a pod

But keep it to two.

Bread

And butter

Unless you have a really good reason.

Hand

In hand

Instead of different fonts, you can also use different typefaces:

Lato Light

Lato

Lato Black

font resources

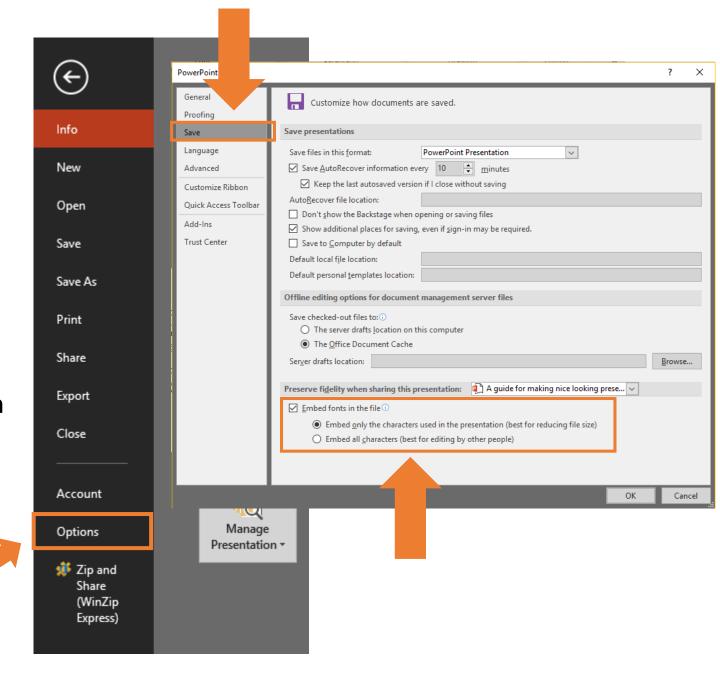
There are loads of free, downloadable custom fonts out there. Go find some inspiration!

Font Squirrel

Worried your cool new font won't show up on another computer?

No problem! *Embed it.* (It'll increase the file size but it's so worth it)

Go to: File > Options > Save > Embed fonts



COLOR!

color is your friend but color is tricky

Color is a slippery slope. It enhances a slide but things can get real ugly reeeaal quick, too.

Some key color points:

- Like fonts, don't use too many. Pick 2 main "theme" colors that match your ~vibe~.
- Keep background colors subdued. Not tryna assault anyone's eyes.

accent colors

Color is a super effective way to emphasize things.

Choose an accent color that contrasts your theme colors without being too jarring.

choosing a palette



It's okay to use black on white!

pros: nice, minimal aesthetic

cons: bright on the eyes

background text accent

Bad Watermelon

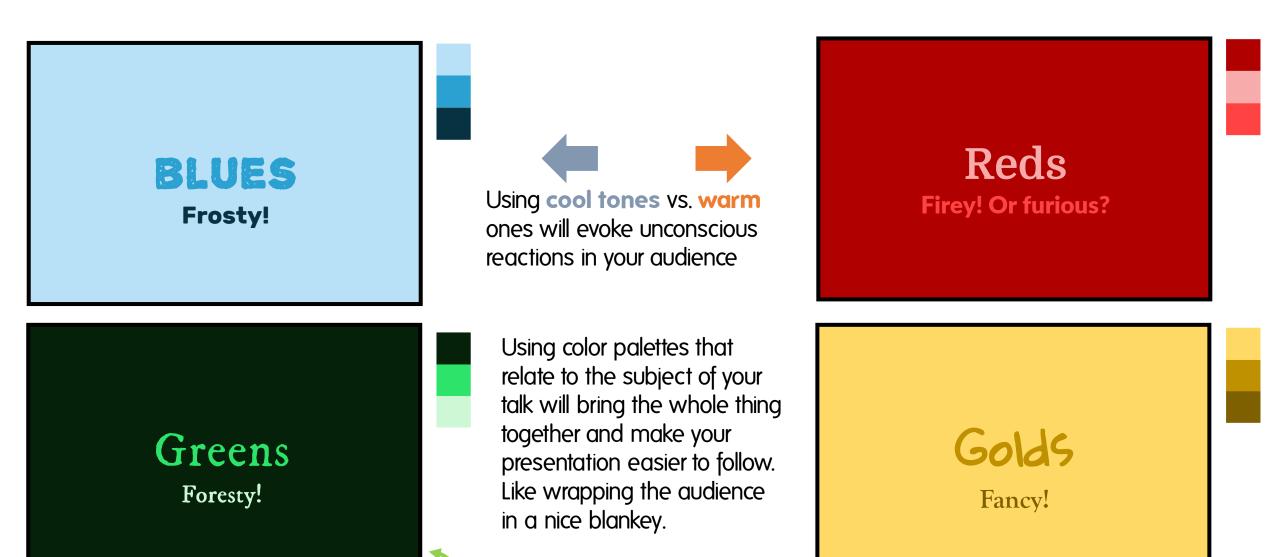
My eyes! They burn!

Rebellious

Ha, not really.

Better Watermelon

Washed out watermelon



TALKING ABOUT FOREST ECOLOGY? GO FOR GREEN!

Monotone palettes are cool too!

Consider colorblindness

Not everyone perceives color in the same way! Be mindful of color choices that could render your presentation illegible to some.

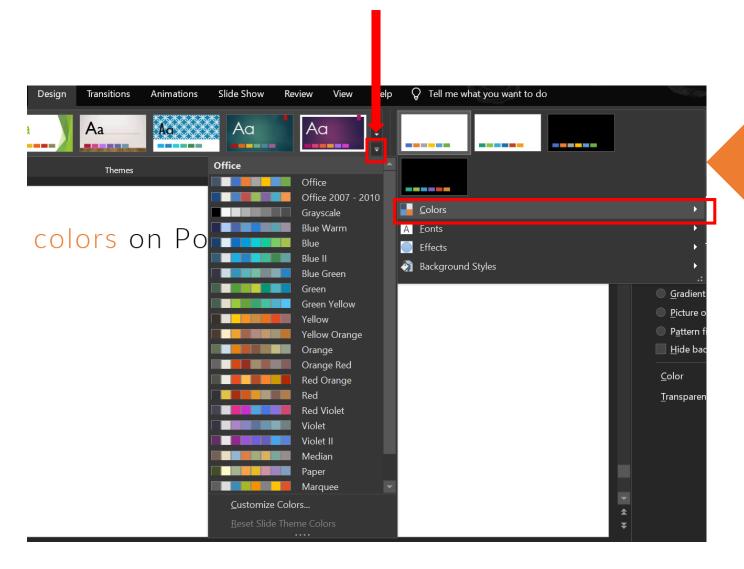
The most common form of colorblindness is difficulty distinguishing reds and greens (but unless you're going for an "ugly Christmas sweater" vibe, there aren't great reasons to pair these two).

Monotone palettes are good for this.

There are tools you can use to **simulate** your color choices under different forms of colorblindness, in addition to pre-made **colorblind-friendly palettes**:

- Coloring for colorblindness
- Color brewer

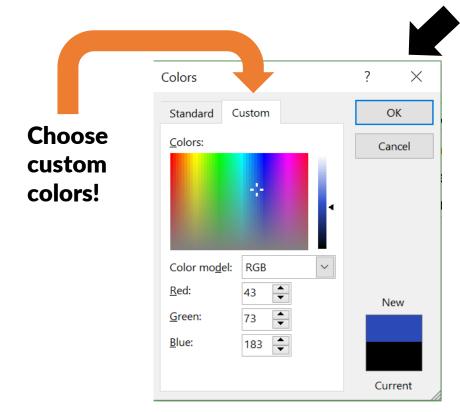
colors on PowerPoint



If you don't like the default palette, there are other options!

Design tab > the little down arrow under the scrolly bar on 'Variants' > Colors

colors on PowerPoint







Need to match a color exactly?
Click anything with the eyedropper tool, and voilà!

color resources

Create your own palette, extract a color palette from a photo you like, or palette inspirations: Adobe Color

Material design palettes

DESIGN!

& technical tips

backgrounds 101



Don't make it too busy.

İt's called a "background"

Creating **texture** in the background makes it interesting without overpowering slide content.



(these are thought bubbles in the default shape options)

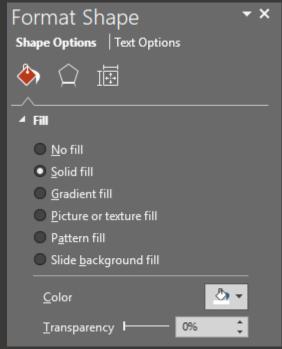




Greens



Change an object's transparency by right-clicking, then Format shape > selecting Solid fill, and moving the slider.





backgrounds 101

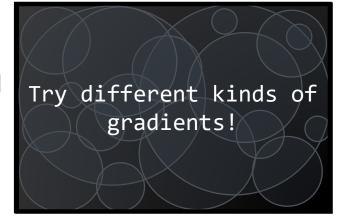


White triangle at 80% transparency, **copypasted** a bunch of times.

Radial gradient background layer + light blue circles with 75% transparent fill & opaque outlines + 45% transparent black top layer 75% transparent lightning bolts, copypasted a bunch of times, with:

64% transparent **white** layer on top,

vs. a **black** top layer.



Change the color of your topmost semitransparent layer!

Change the color of your topmost semi-transparent layer!

backgrounds 101

USE DIFFERENT
BACKGROUNDS ON
DIFFERENT SLIDES.

Each background can be a variation on the main theme.

Use solid backgrounds if there are other visual elements on the slide, like graphs.

Species Distributions in North America

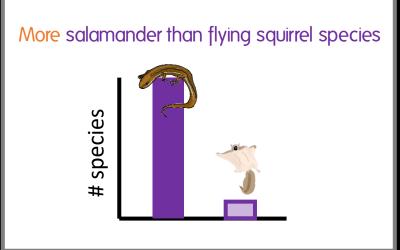
North American species

They got species for sure

Flying squirrels, for example.







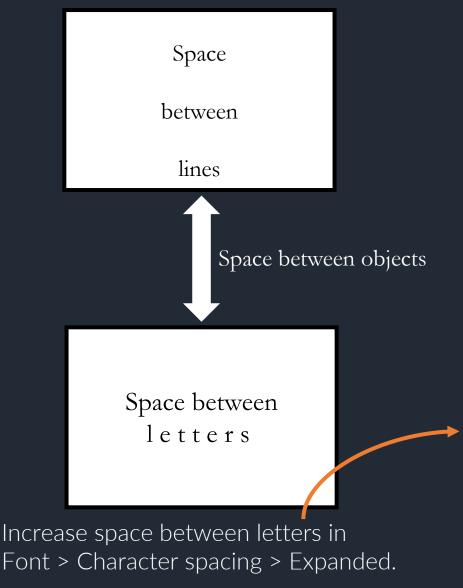
If you want to use a simple white background,

do it.

whitespace

Whitespace breaks up your slide and adds visual interest. You can use it strategically to emphasize things, too (see previous slide).

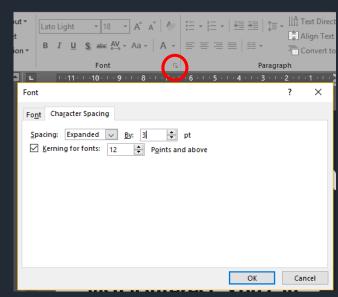
Also consider how much space you have from slide to slide. Cluttered slides can be followed by slides with a lot of whitespace to provide relief during a presentation.



Your font choice also affects whitespace, e.g.:

Lato Black has little space, but

Lato Light has lots.





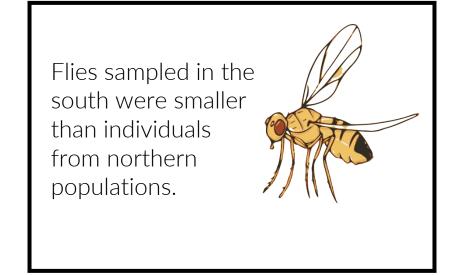
PowerPoint has default size settings.

But you don't have to listen to them!

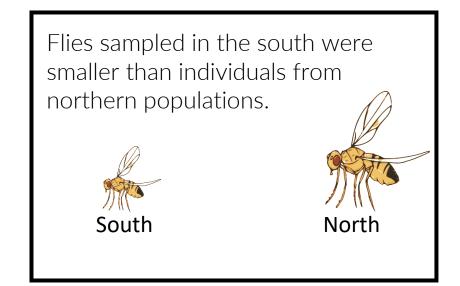
Changing font sizes, or making objects obscenely large can make a slide look "designed" with very little effort.

Size differences are easy to perceive

So use them when you can, rather than only writing it out.



VS.



IMAGES

Yes. These are required.

Don't just plop them on the slide. Use them too.

plopping



Flies sampled in the south were smaller than individuals from northern populations.



This is okay,

using



Flies sampled in the south were smaller than individuals from northern populations.



but this is better.

North

Images serve different purposes in a presentation.

PICTURES

If you want to show the audience a photo of your idyllic island field site, go for it.

VS.

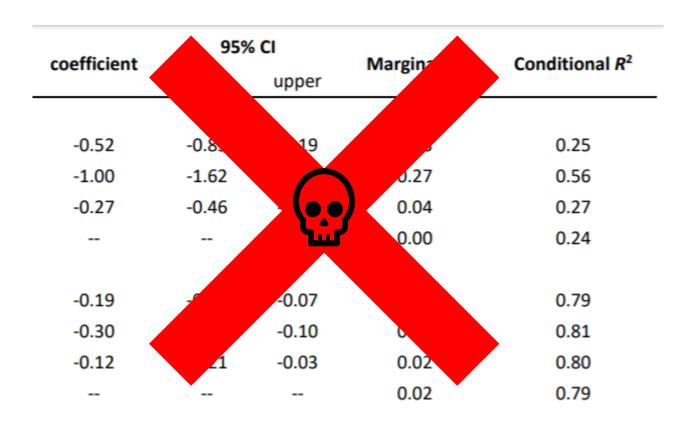
But if you want to demonstrate how predators in a pond affect other species, use a diagram.

DIAGRAMS

Audiences engage with images in different ways: diagrams need to be deciphered, while photos can evoke feelings and memories. Both types have a place in a presentation!

Tables aren't images.

This is a friendly reminder that tables have absolutely no place in a presentation, ever.



Think about the last presentation you attended. For an audience member, taking in a presentation requires a concerted effort to pay attention to the right things.

The audience is (hopefully) listening to you speak and visually digesting slides at the same time, eyes continually darting between the two. If you're pacing back and forth, their focus will shift to you instead of the slide. If there's too much happening at once on your slide, they'll stop listening.

Your job as the presenter is to guide the audience towards what they should be focusing on.

Using images in place of text forces the audience to listen to what you're saying, while simultaneously taking in a visual representation.

Don't get rid of text entirely – the audience will benefit from well-chosen key words or concepts on the slide.



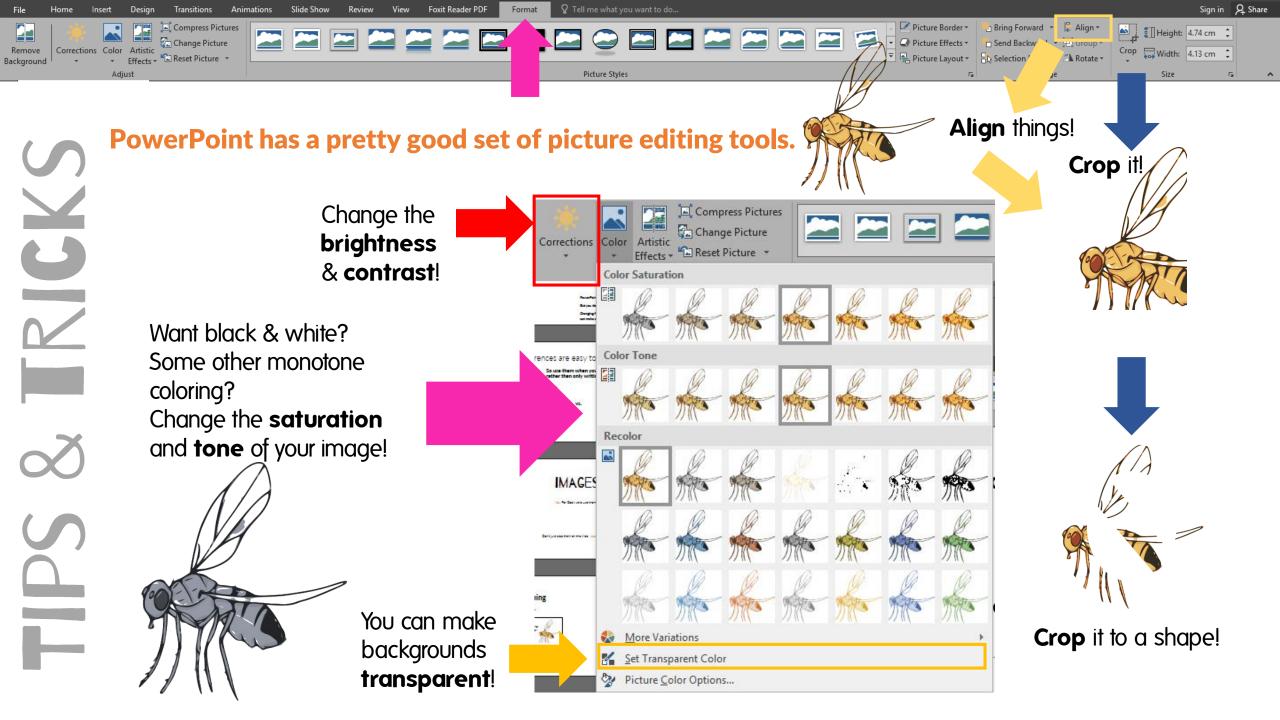
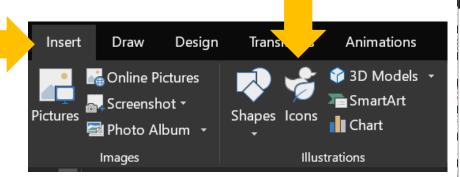
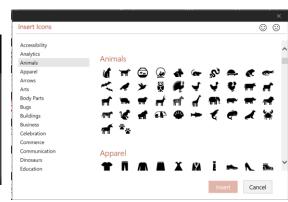


IMAGE RESOURCES

PowerPoint has **built-in icons** you can use:

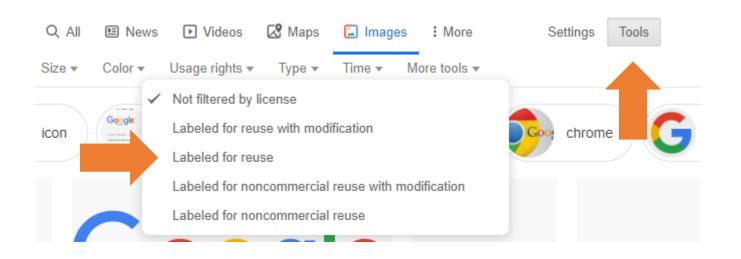


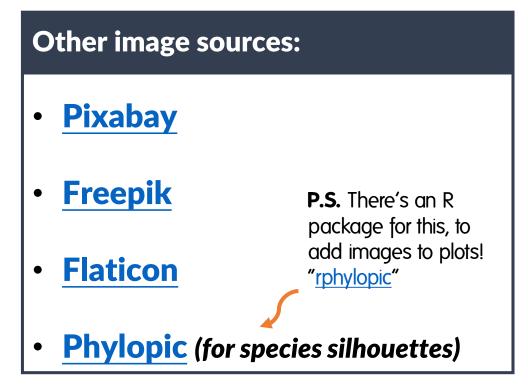


ATTRIBUTIONS

Credit the creator if you know who they are.

You can filter for non-copyrighted photos on Google:







...as in "end,"

not fish

This guide is intended to:

open your eyes to the wonderful world of making presentations*, and

demonstrate PowerPoint's considerable capacity to make pretty things§.

^{*}Because remember, it's fun!!!

[§] No one paid me to say this but maybe they should...??

This guide is not:

definitive,

nor should you limit yourself to anything said here¹.

The point is to have fun and experiment

scientists love experiments

SO,



go forth and make exciting presentations!