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Designing for Neurodiversity, Empathy, Human Centric Design and Inclusion in Software Applications





Glossophobia

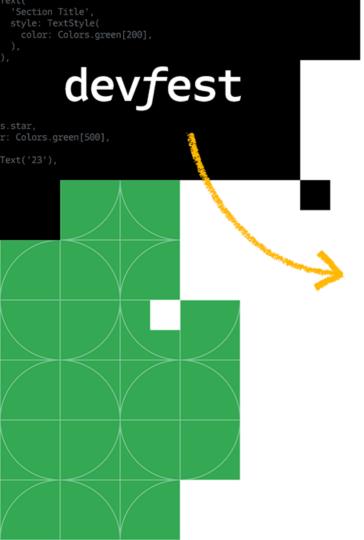








This is an example of section title slide





Agenda

What is Neurodiversity?

Accessibility vs ND

Guidelines for Design

Concluding Remarks





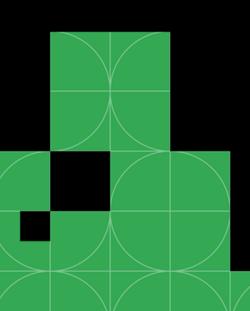
This is an example of section title slide





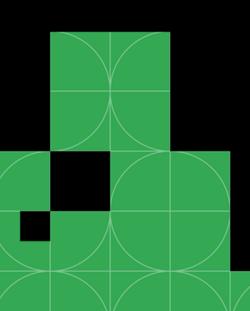
This is an example of section title slide



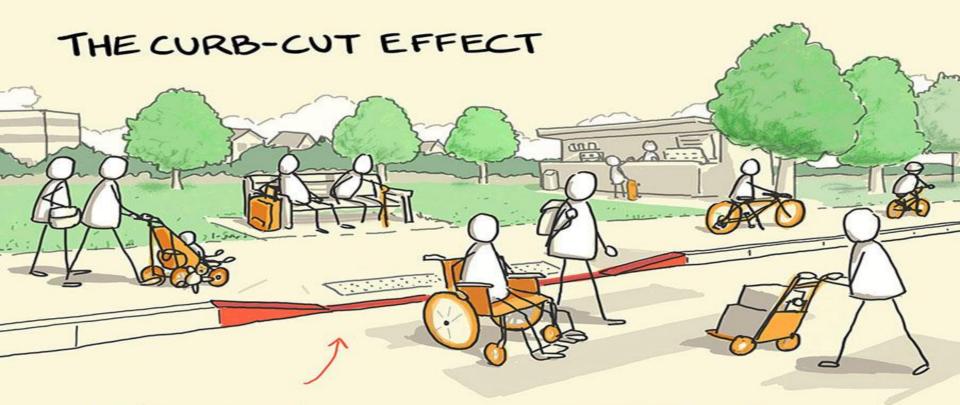


Simple statement, URL or quote goes here. Limit text to four lines or less.





Simple statement, URL or quote goes here. Limit text to four lines or less.



WHEN WE DESIGN FOR DISABILITIES ... WE MAKE THINGS BETTER FOR EVERYONE

sketchplanations



Solve for one, extend to many

NOTHING ABOUT US WITHOUT US

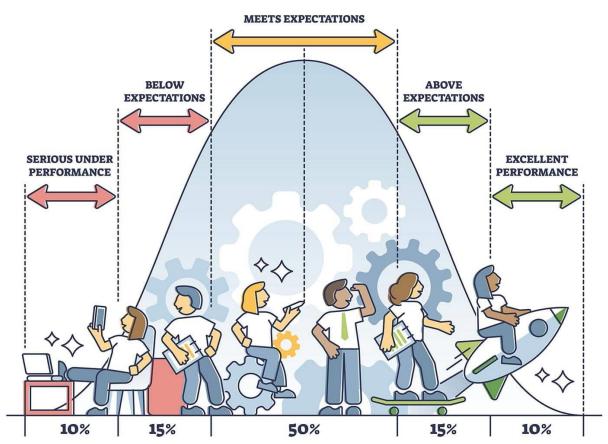






Risk marginalization and only cater to the central, normal values as peak users in the Gaussian(bell) curve.

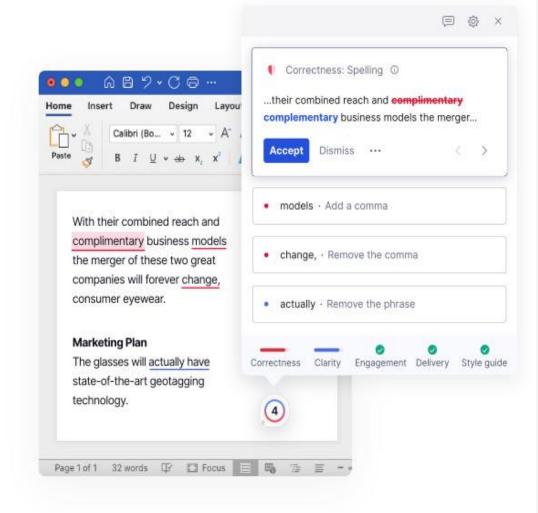
BELL CURVE



Source: https://www.simplypsychology.org/normal-distribution.html

Be Kind and Forgiving

Grammarly - Disneyland of Spelling



(2)

Implement a Forgiving Format to Accommodate Users' Mistakes

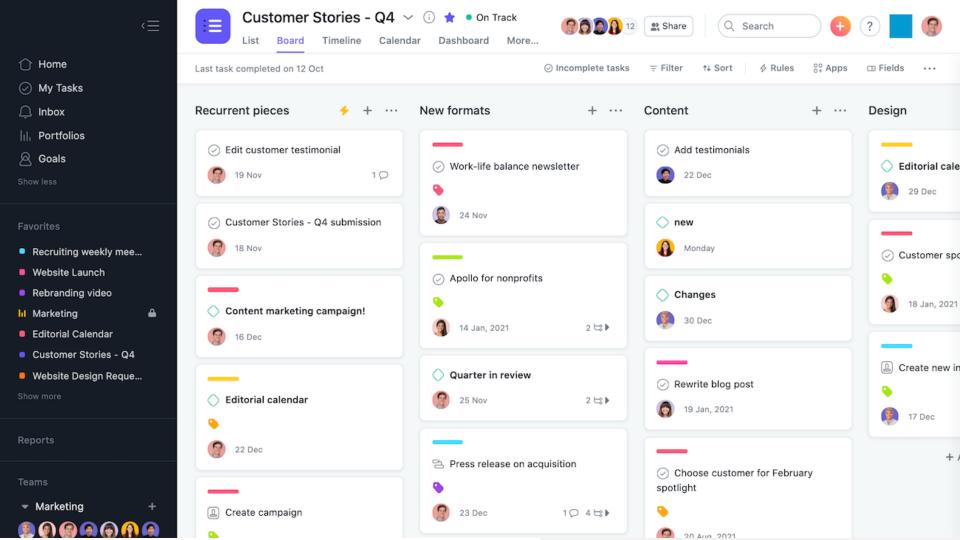
"We don't make mistakes, just happy little accidents."
—Bob Ross, American painter, painting instructor, and TV show host



Where to? Start your next adventure on Airbnb.



Abundance and not redundance



Often the first to sense danger akin to canaries in the coal mine **Preventing** miscommunication and not overwhelming the users







Two Column Title

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse vehicula nulla a leo placerat, in convallis justo molestie. Ut id maximus mauris, vitae pharetra justo.

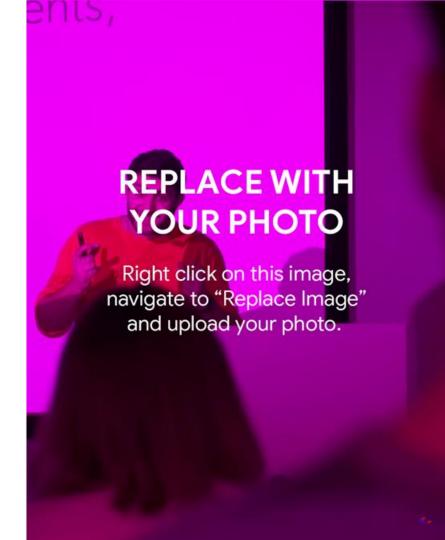




Use more than

50%

Of this number slide



Guidelines

Interpretable messages

Avoid use of characters that look alike

E.g. 111, B8, QOOCD, and try to break up long strings in phone numbers e.g. (000) 000-0000

- Stick to active voice: Sentences in the passive voice are longer and harder to comprehend.
 Users with ADHD will get bored, dyslexics will have even more trouble reading, and so will readers on the spectrum.
- **Avoid metaphors**: Trouble understanding metaphors, such as idioms and other abstract figures of speech.

E.g. Instead of calling it a day, it's more inclusive to say that something is done.



Guidelines

•Format your writing: Divide large chunks of text into smaller paragraphs. It is challenging for people struggling with limited attention spans.

•Use descriptive buttons: No vague microcopy, such as *Click here*.

Describe the purpose of the button.

Example: Upload images, Register, Download the e-book.

This simple change makes navigation smoother and reduces anxiety.

• Be careful with animations: Too much stimulation can induce anxiety in people on the autism spectrum, which may even lead to physical pain, withdrawal, or meltdown.

Use of animated elements should be limited to instances when it serves a purpose. Also remember not to make them too invasive.

Guidelines

Avoid autoplay

Unexpected movement is surprising and scary, not to mention the sound!

Add subtitles and captions

Bring in the perspective of ND users

Perform user testing and focus groups with them.





Takeaways

Aim to visually please, rather than disturb.

Abstain from auto play and music that suddenly appears out of nowhere.

Skip highly vibrant colors.

Designing for users on the autistic spectrum Don't... Do... use bright use simple contrasting colours colours write in use figures of Do this. plain English speech and idioms use simple create a wall sentences and of text bullets make buttons make buttons Click here! vague and **Attach files** descriptive unpredictable build simple and build complex and consistent layouts cluttered layouts



Designing for users with dyslexia



Do...

Don't...

use images and diagrams to support text



use large blocks of heavy text



align text to the left and keep a consistent layout



underline words, use italics or write in capitals



consider producing materials in other formats (for example, audio or video)



force users to remember things from previous pages - give reminders and prompts



keep content short, clear and simple



rely on accurate spelling - use autocorrect or provide suggestions



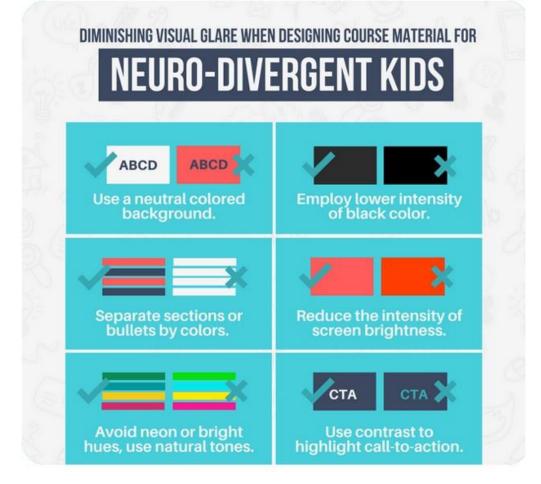
let users change the contrast between background and text



put too much information in one place





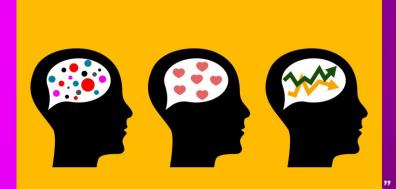


Credit : DesignMantic

of reusable components,

Great Minds Think Unalike And Learn Differently

Representation Matters!





of reusable components,

A design with inclusivity and neurodiversity in mind is not just 'nice to have' – it's imperative







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