Designing for cognitive disabilities

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Conference speaker
Accessibility & design



UX instructor
Brainstation



Plant lover
Low water



Tennis player
Working on it



Movie watcher
Horror

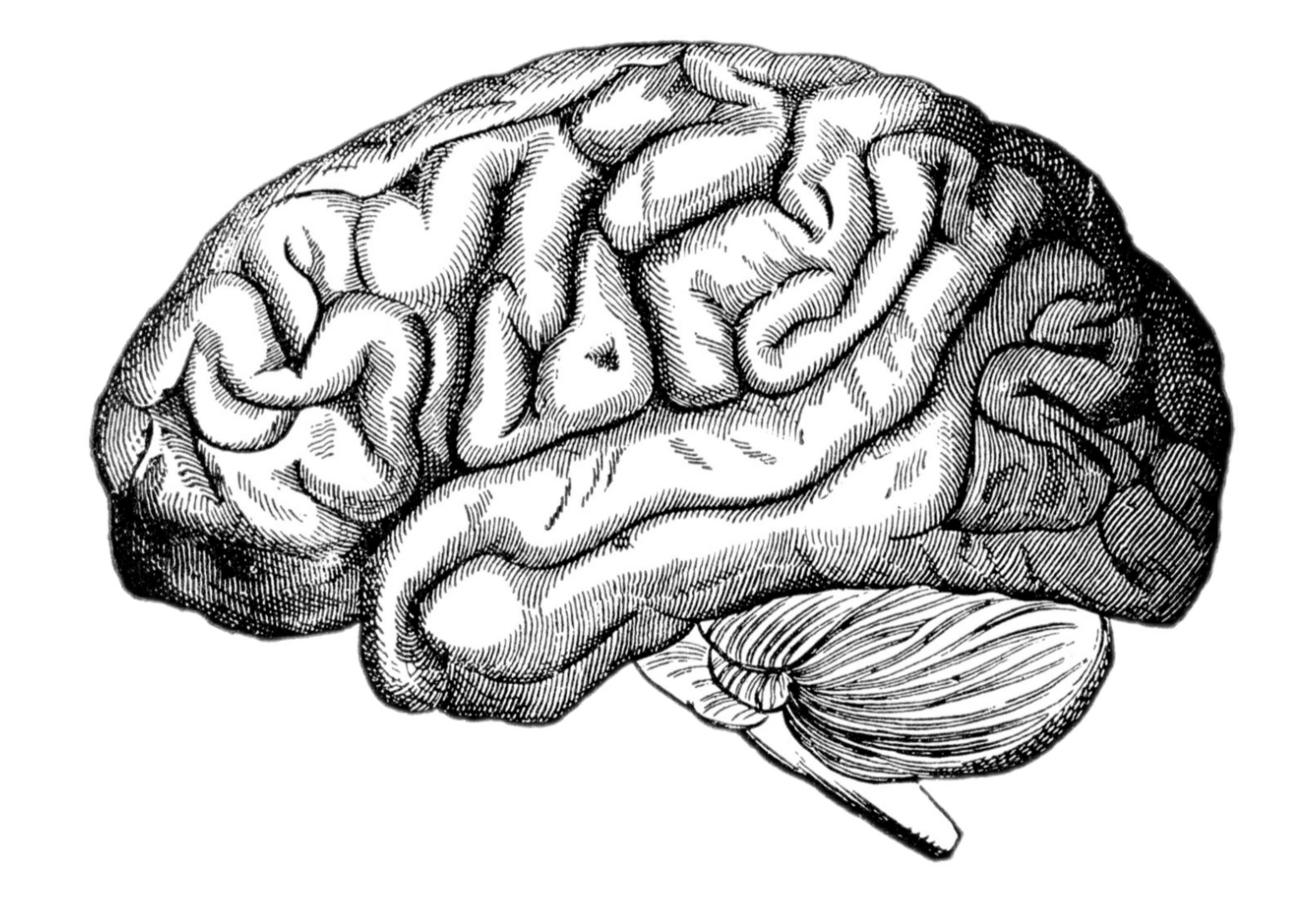


Piano player
Learning to love it (again)

Agenda

- What are cognitive disabilities?
- Using simple language
- Reducing cognitive load
- Using simple layouts
- Testing with a variety of users

What is a cognitive disability?



Neurotypical =

People who do not have a cognitive disability

Neurodivergent =

People whose brains function in ways considered atypical by society

Difficulties with mental tasks that a neurotypical person might not struggle with

WCAG = Web Content Accessibility Guidelines

defined by

W3C = World Wide Web
Consortium, maintains web
standards

Cognitive disabilities are the most common disabilities



> 1 billion people

WCAG when it comes to cognitive disabilities:

- Sometimes difficult quantify (eg. what is accessible language?)
- Generally AAA

Language

LANGUAGE

Descriptive page titles



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Positive psychology

From Wikipedia, the free encyclopedia

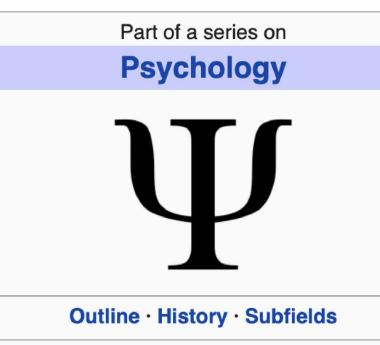
This article is about psychology. For the positive mental attitude, see Optimism.

Positive psychology is the scientific study of what makes life most worth living, focusing on both individual and societal well-being. [1] It studies "positive subjective experience, positive individual traits, and positive institutions...it aims to improve quality of life."[2] It is a field of study that has been growing steadily throughout the years as individuals and researchers look for common ground on better well-being. [3]

Positive psychology began as a new domain of psychology in 1998 when Martin Seligman chose it as the theme for his term as president of the American Psychological Association. [4][5][6] It is a reaction against past practices, which have tended to focus on mental illness and emphasized maladaptive behavior and negative thinking. It builds on the humanistic movement by Abraham Maslow, Rollo May, James Bugental, and Carl Rogers, which encourages an emphasis on happiness, well-being, and positivity, thus creating the foundation for what is now known as positive psychology.[6]

Positive psychology focuses on eudaimonia, an Ancient Greek term for "the good life" and the concept for reflection on the factors that contribute the most to a well-lived and fulfilling life. Positive psychologists often use the terms subjective well-being and happiness interchangeably.^[7]

Positive psychologists have suggested a number of factors may contribute to happiness and subjective well-being. For example, social ties with a spouse, family, friends, colleagues, and wider networks; membership in clubs or social organizations; physical exercise, and the practice of meditation. Spirituality can also be considered a factor that leads to increased individual happiness and well-being. Spiritual practice and religious commitment is a topic researchers have been studying as another possible source for increased well-being and an added part of positive psychology. [8] Happiness may rise with increasing financial income, though it may plateau or even fall when no further gains are made or after a certain cut-off amount.[9]



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[hide] **Basic types**

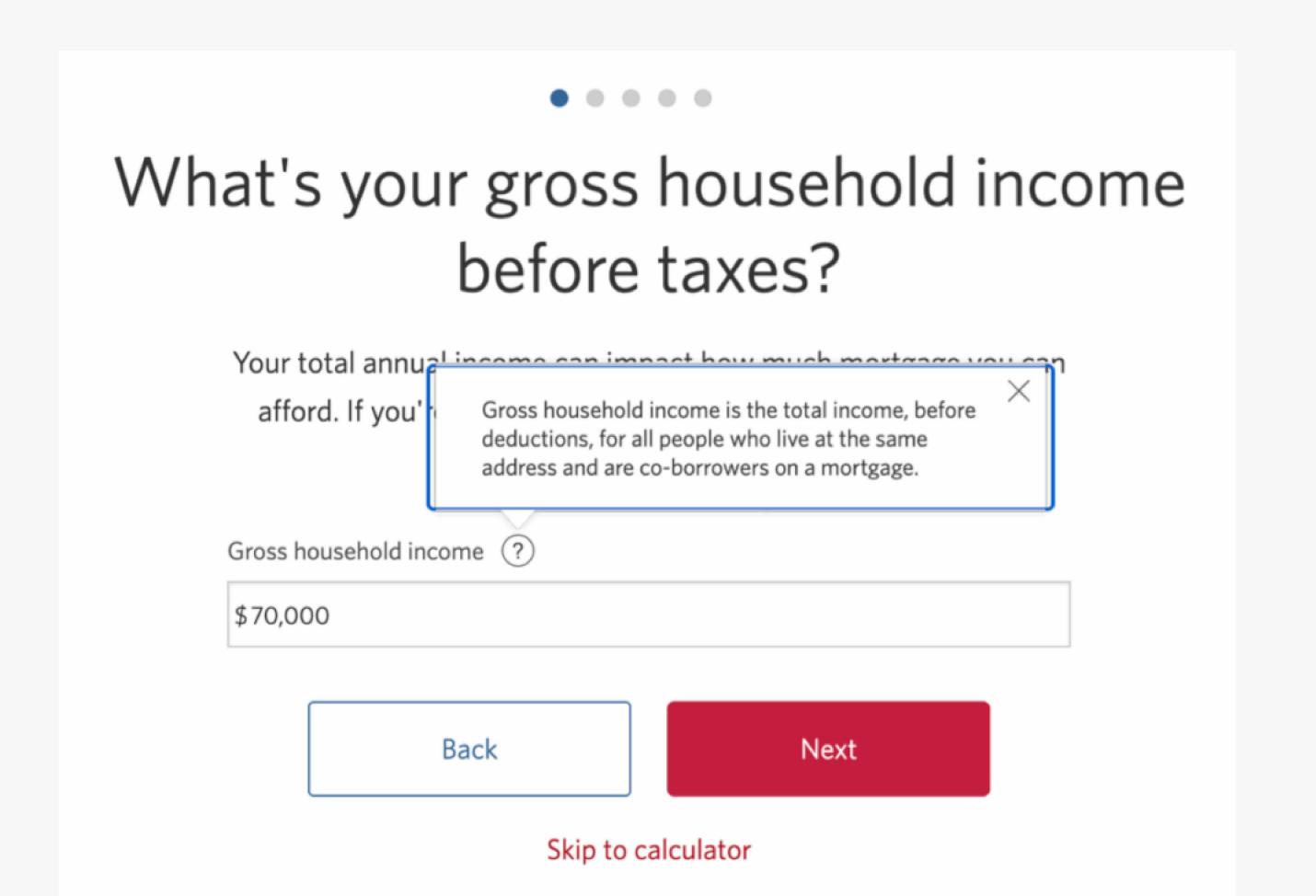
Abnormal · Behavioral · Behavioral genetics · Biological · Cognitive/Cognitivism · Comparative · Cross-cultural · Cultural · Differential · Developmental · Evolutionary · Experimental · Mathematical · Neuropsychology · Personality · Positive · Psychodynamic · Quantitative · Social

Applied psychology

[show]

[show] Lists

Simple language



Cognitive load

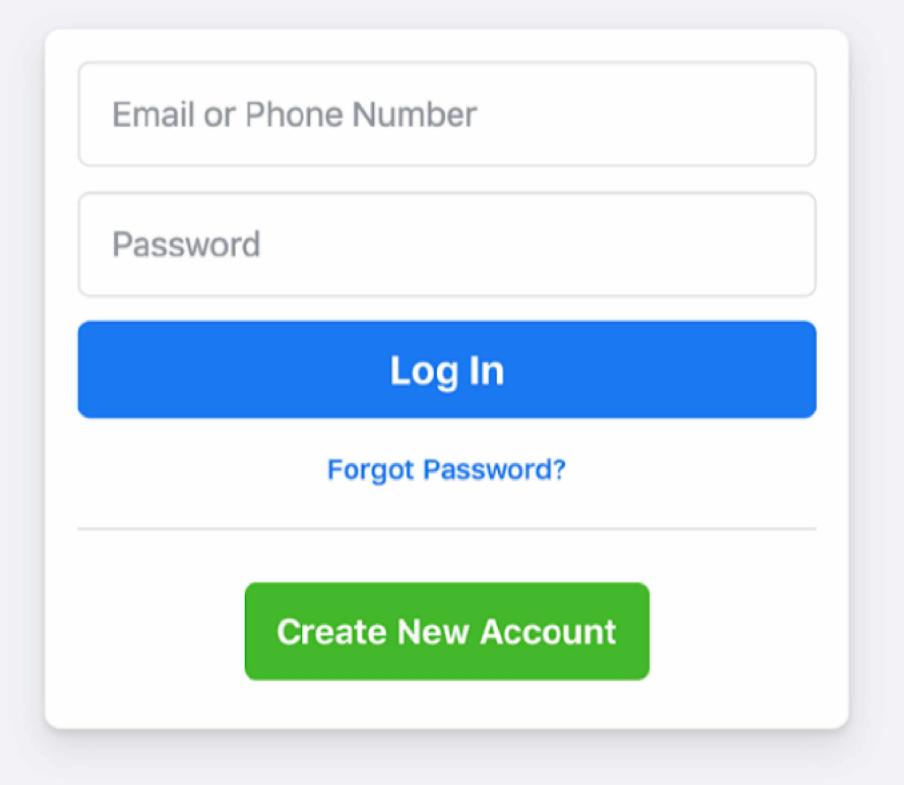
Cognitive load =

the amount of working memory/ short term memory someone is using

COGNITIVE LOAD

facebook

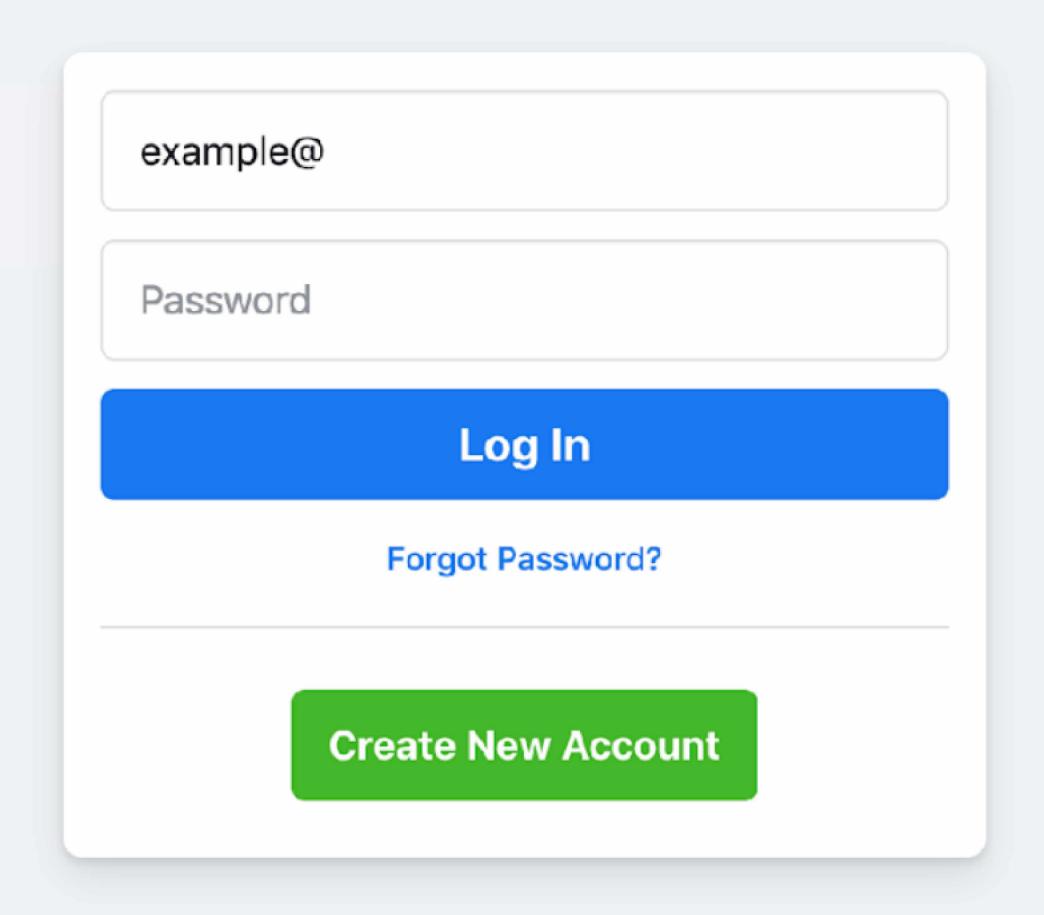
Connect with friends and the world around you on Facebook.



Create a Page for a celebrity, band or business.

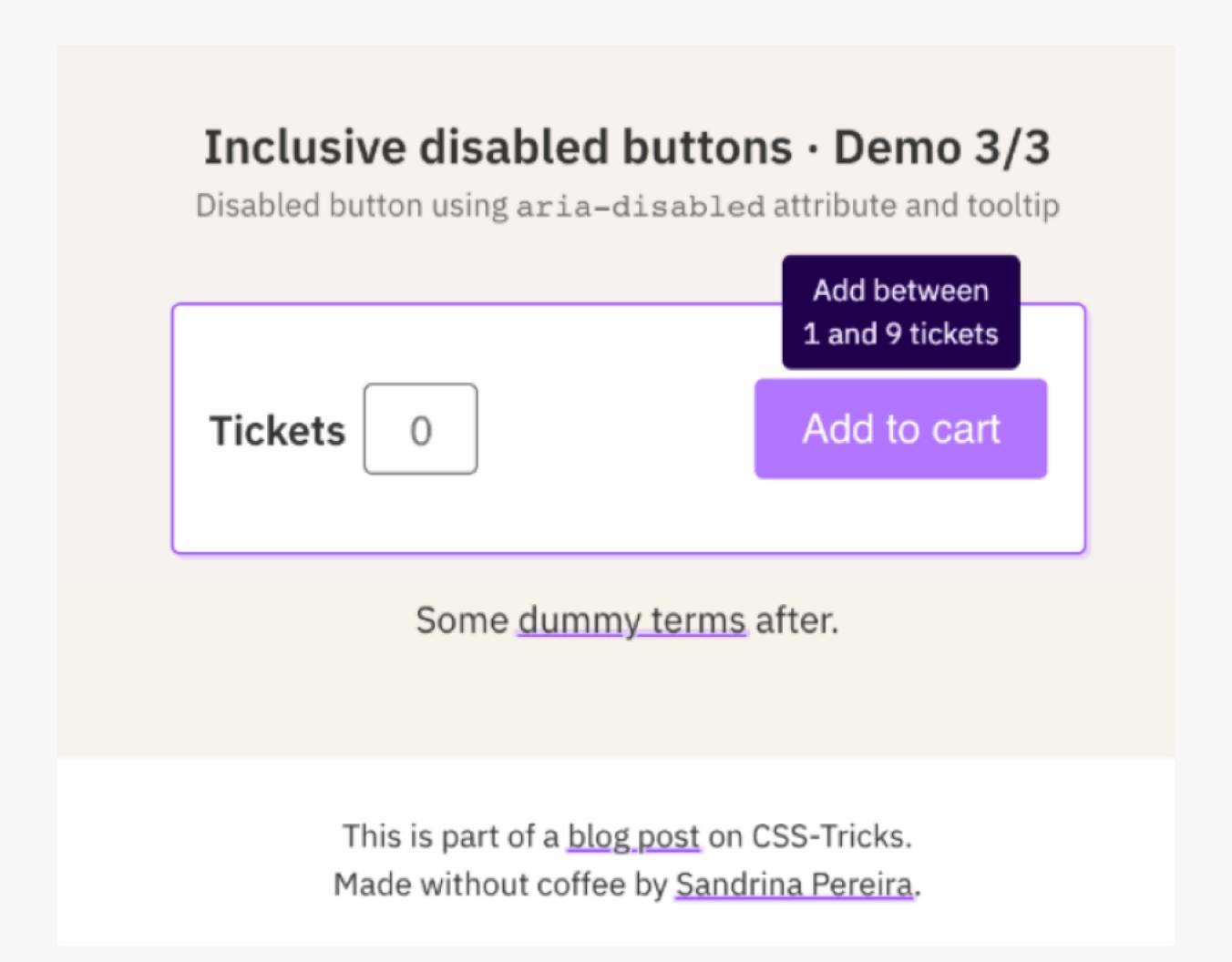
facebook

Connect with friends and the world around you on Facebook.



Create a Page for a celebrity, band or business.

Give users feedback and cues

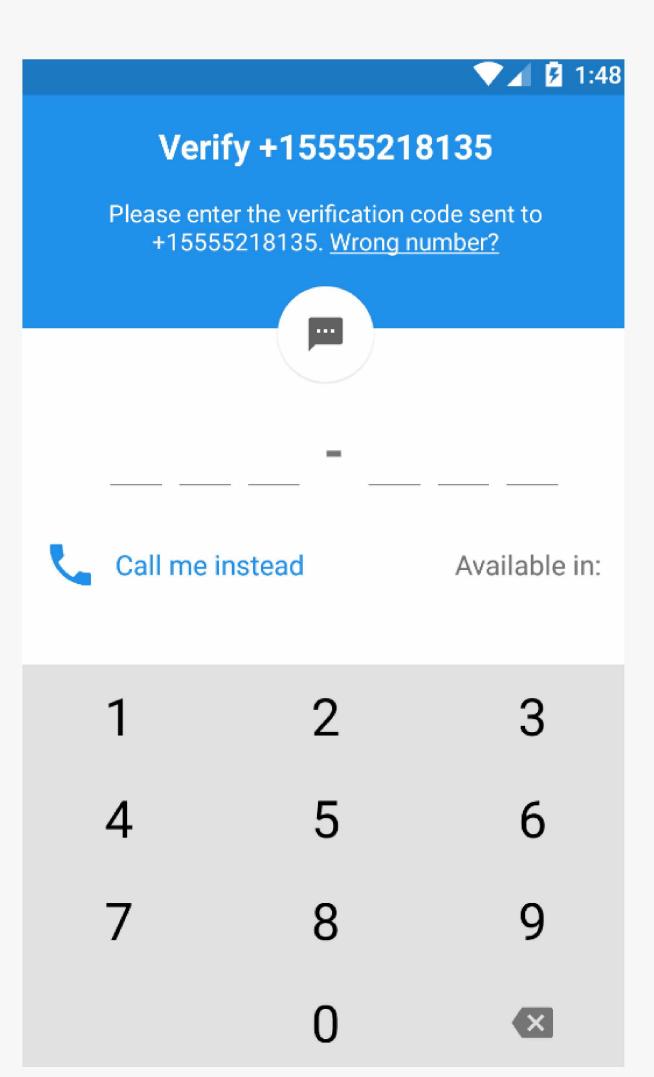


Allow users to cut copy and paste



COGNITIVE LOAD

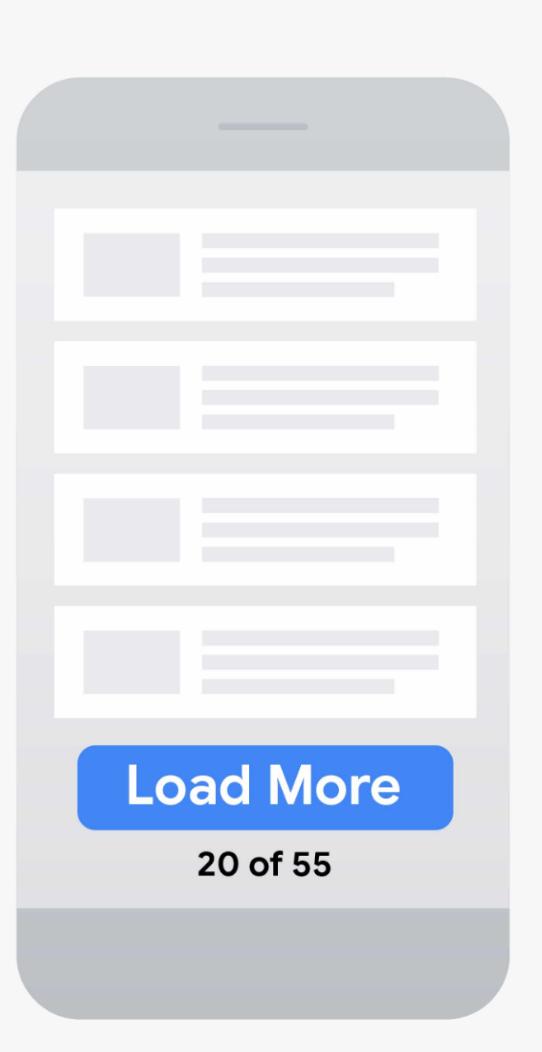
Don't force users to do unnecessary tasks, especially involving memorization

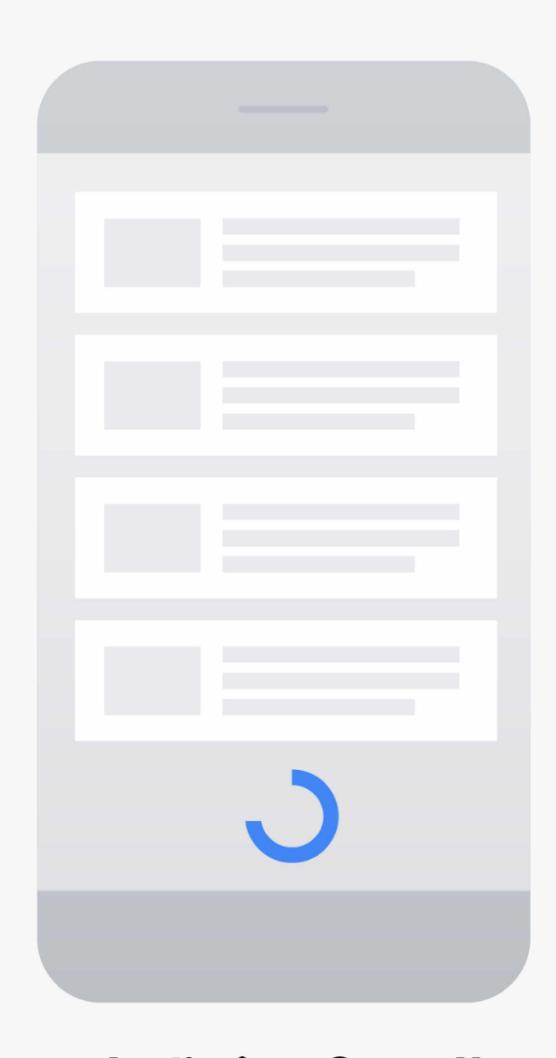


COGNITIVE LOAD

Avoid infinite scrolling and as automatic page refresh



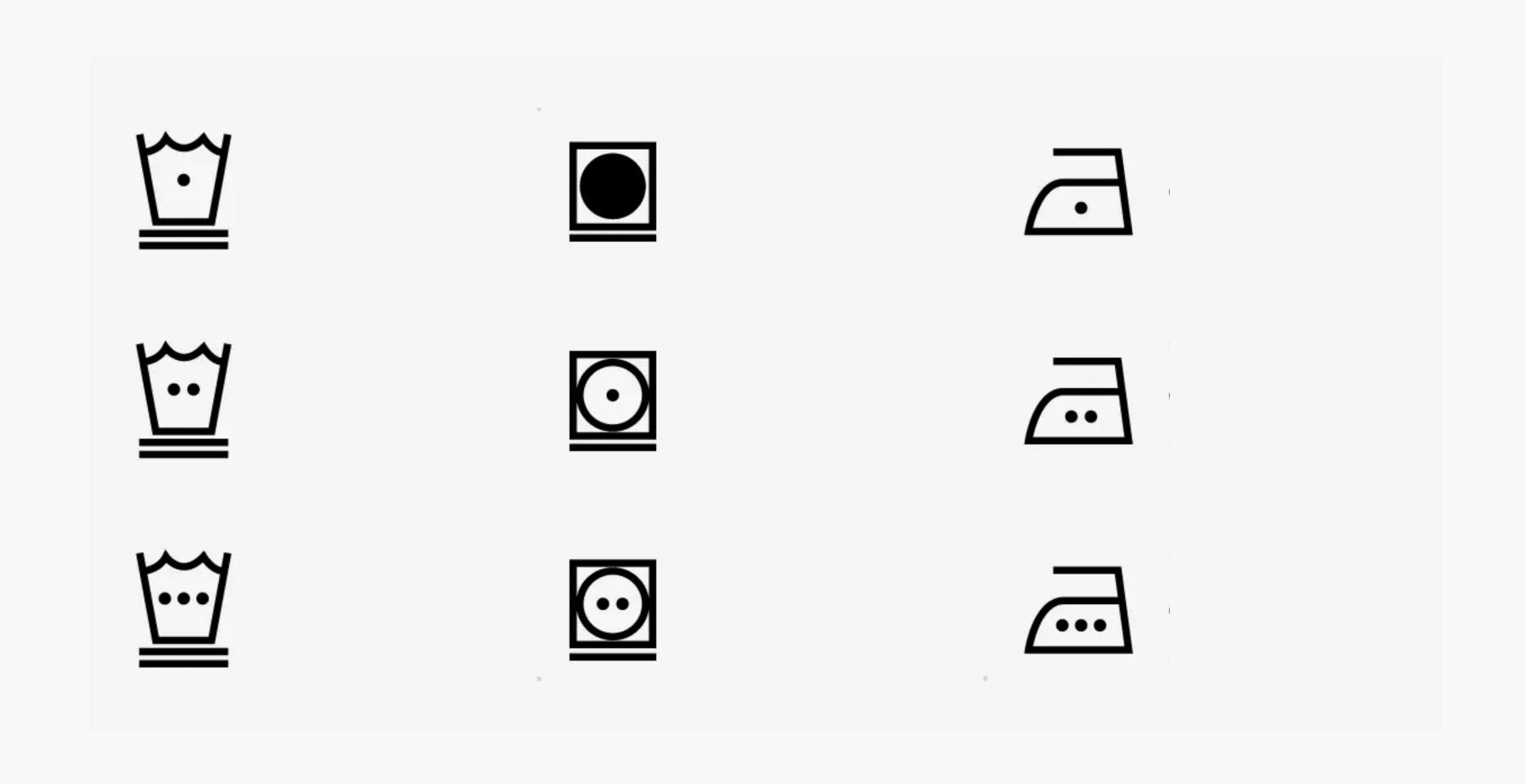




Use common patterns and existing mental models

Use (accessible) visuals and video to support content

Label your icons



COGNITIVE LOAD

Label your icons



Machine Wash, COLD Gentle Cycle



Tumble Dry, Permanent Press, NO HEAT



Iron, Steam, or Dry, with LOW HEAT



Machine Wash, WARM Gentle Cycle



Tumble Dry, Permanent Press, LOW HEAT



Iron, Steam, or Dry, with MEDIUM HEAT



Machine Wash, HOT Gentle Cycle

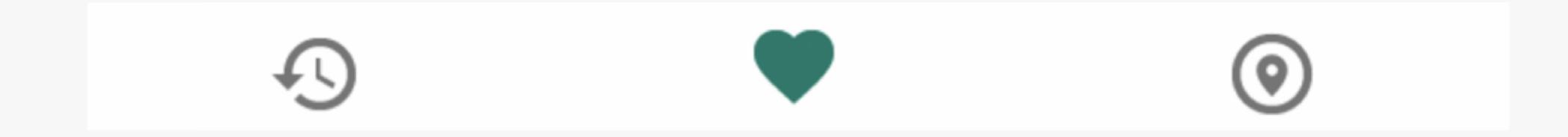


Tumble Dry, Permanent Press, MEDIUM

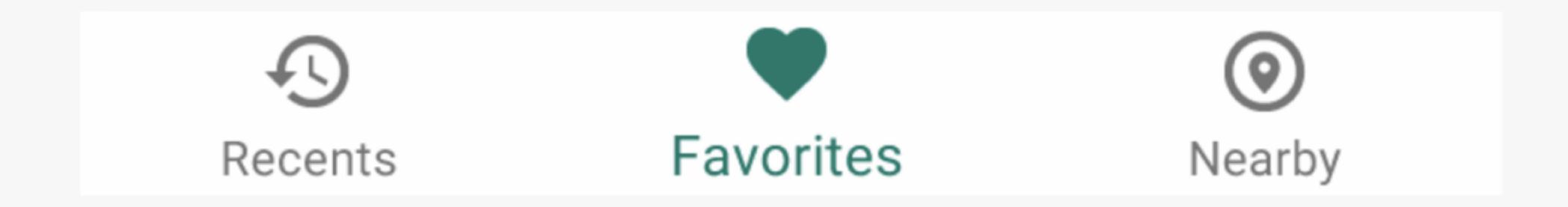


Iron, Steam, or Dry, with HIGH HEAT

Label your icons



Label your icons



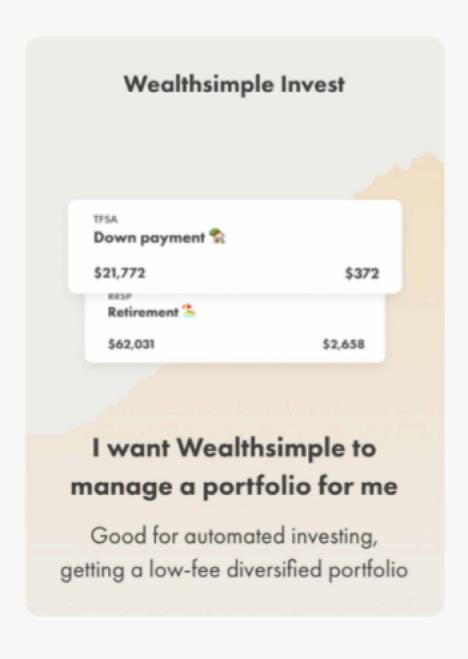
Layouts

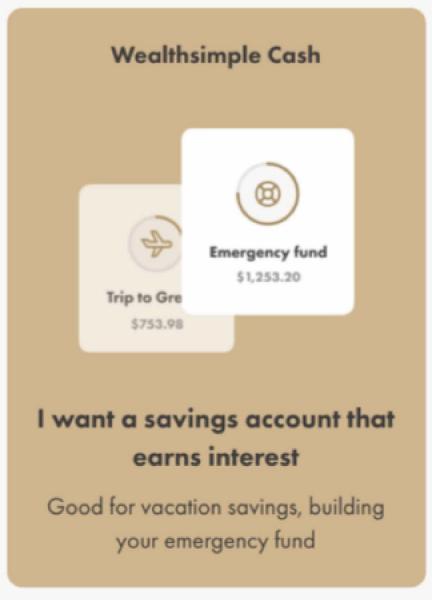
Use whitespace liberally

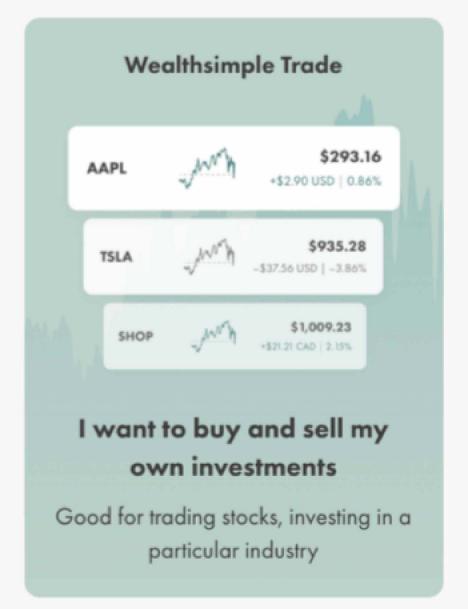
Divide complex tasks into shorter, easier steps

Which product matches your financial goals best?

Choose one to start, you can always add others later.







I haven't decided yet

Let's get you set up!

Add your personal details

Answer a few questions to help us confirm it's really you.

2 Create your personalized portfolio

We'll build a plan to help you meet your goals.

3 Open your accounts

Transfer an existing account to Wealthsimple or open a new account.

4 Fund your accounts

Start growing your nest egg.



Get started

Step 1 of 4

Add your personal details.

We'll ask you for some details so we can verify your identity and ensure your account is secure. You'll only need to enter this information once — it'll be used for all your Wealthsimple products.



Continue

Testing

Test with a variety of users, including those who are neurodivergent

Hire neurodivergent people

Create more inclusive designs lt's the right thing to do

Create more inclusive designs Your work will reach more people

Create more inclusive designs It's our job

Summary

- What are cognitive disabilities?
- Using simple language
- Reducing cognitive load
- Using simple layouts
- Testing with a variety of users

Thank you!

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