Breaking barriers: Embracing neurodiversity in tech











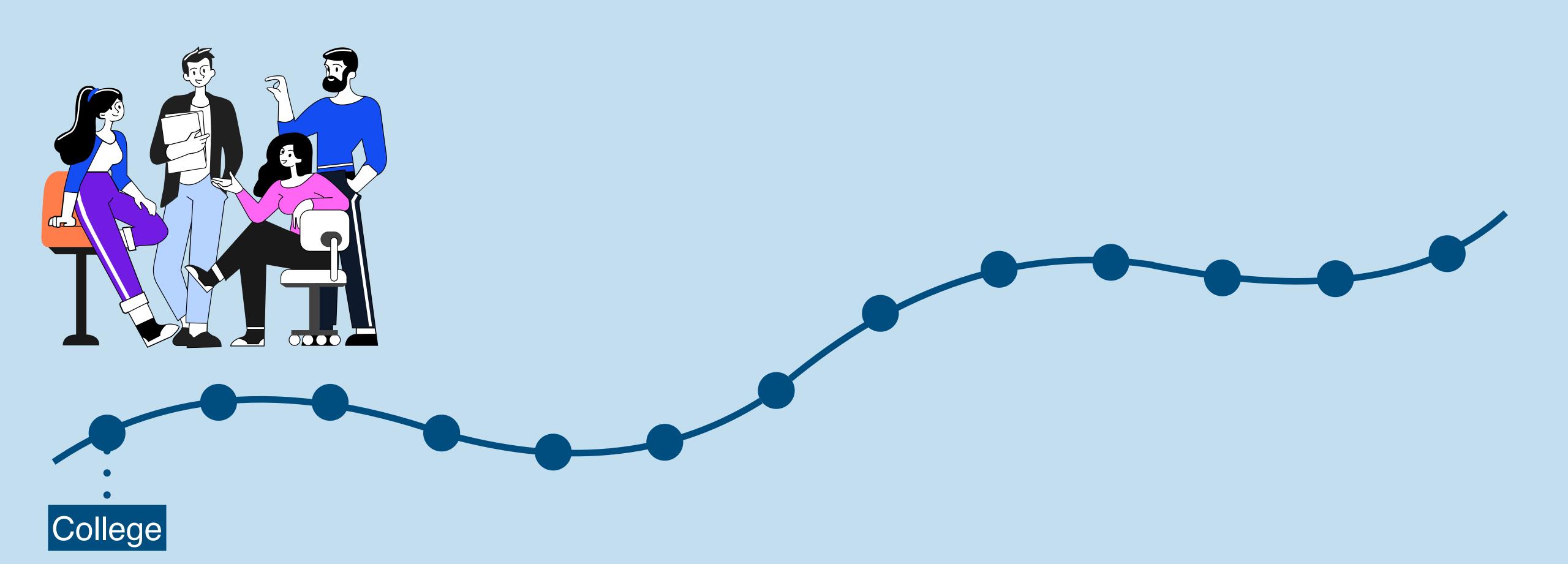


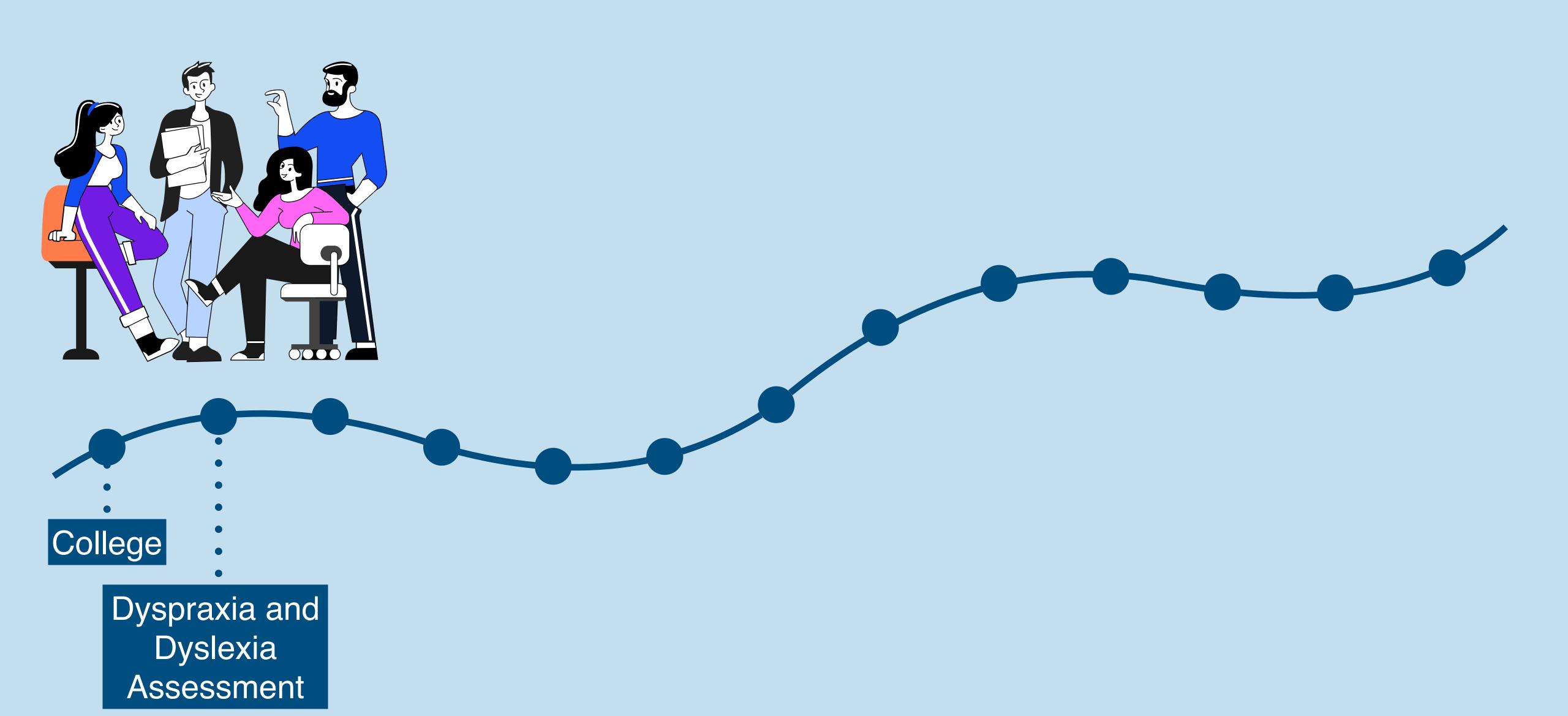


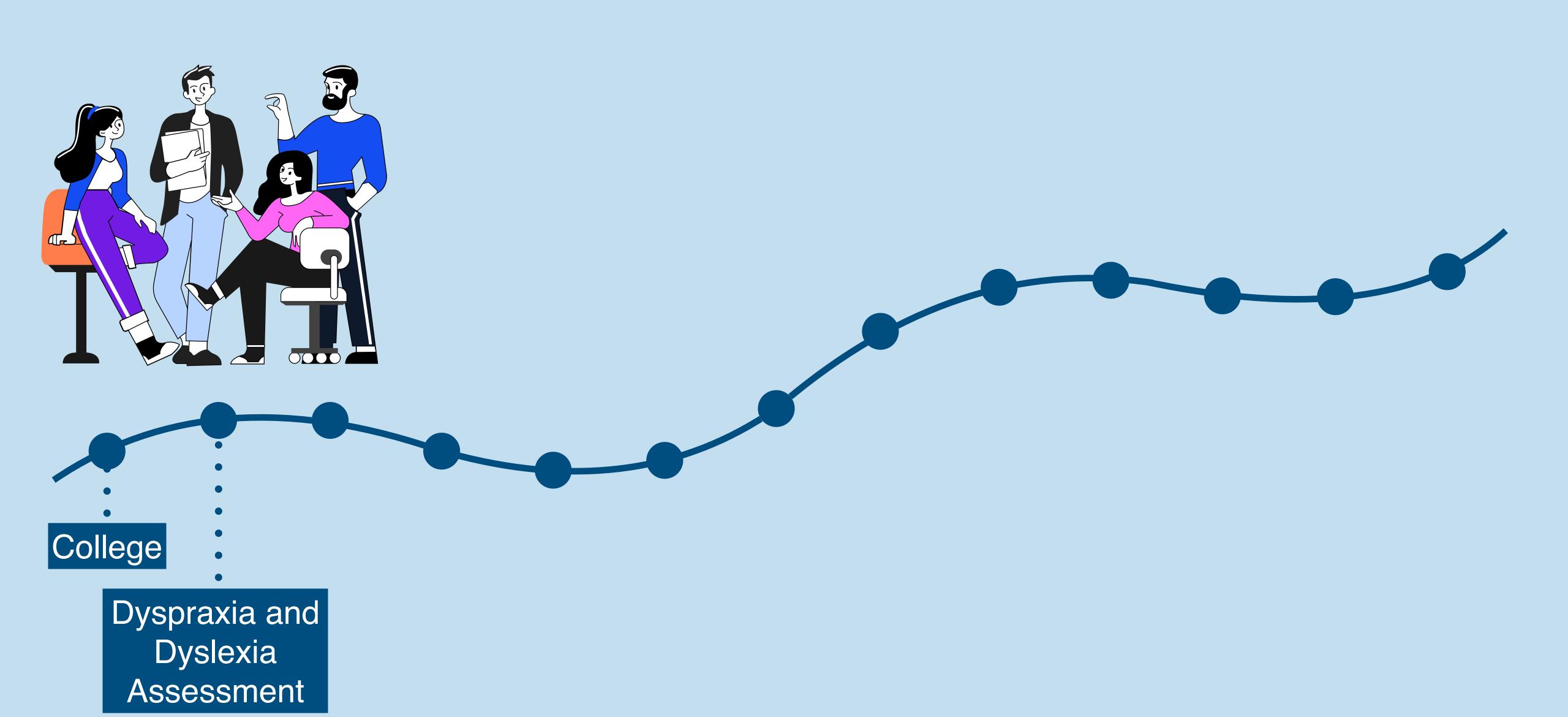


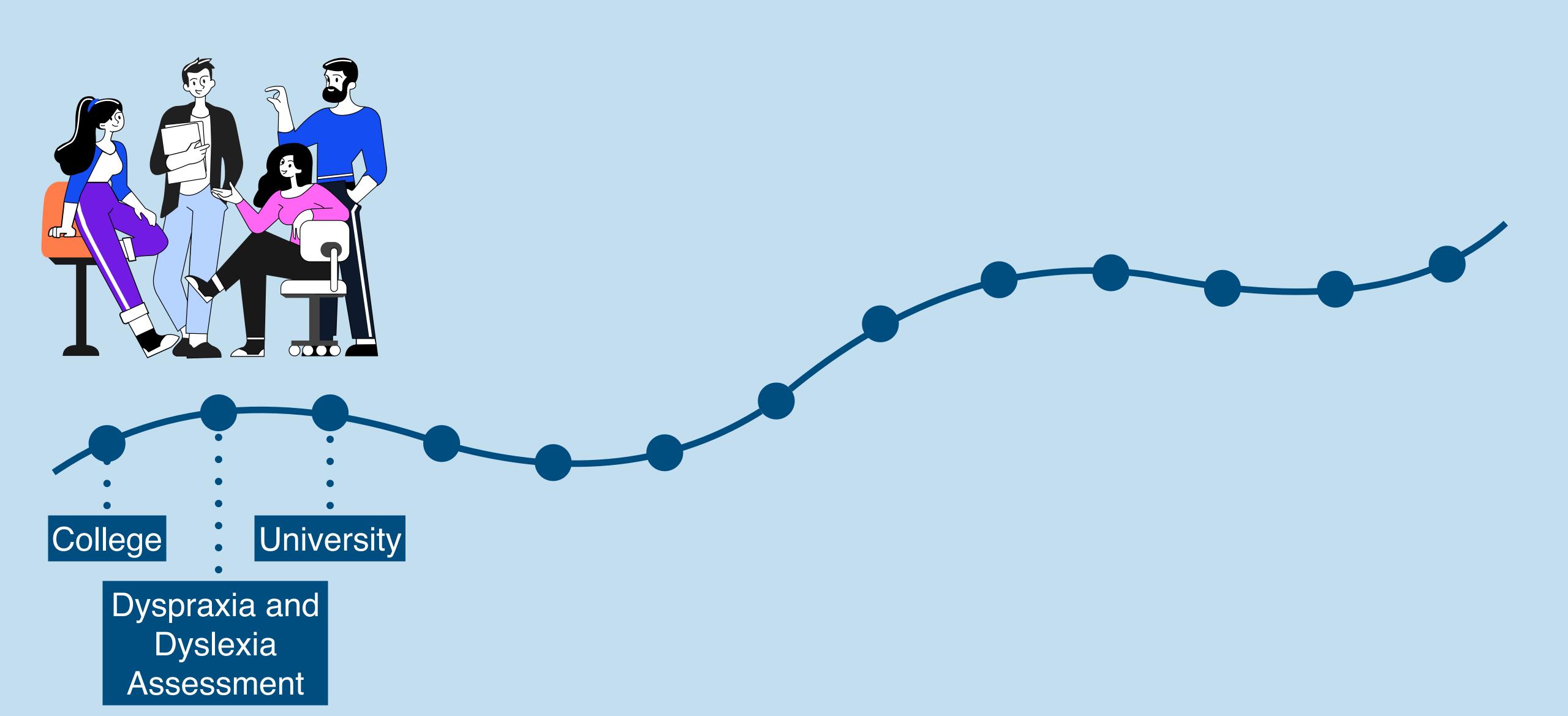


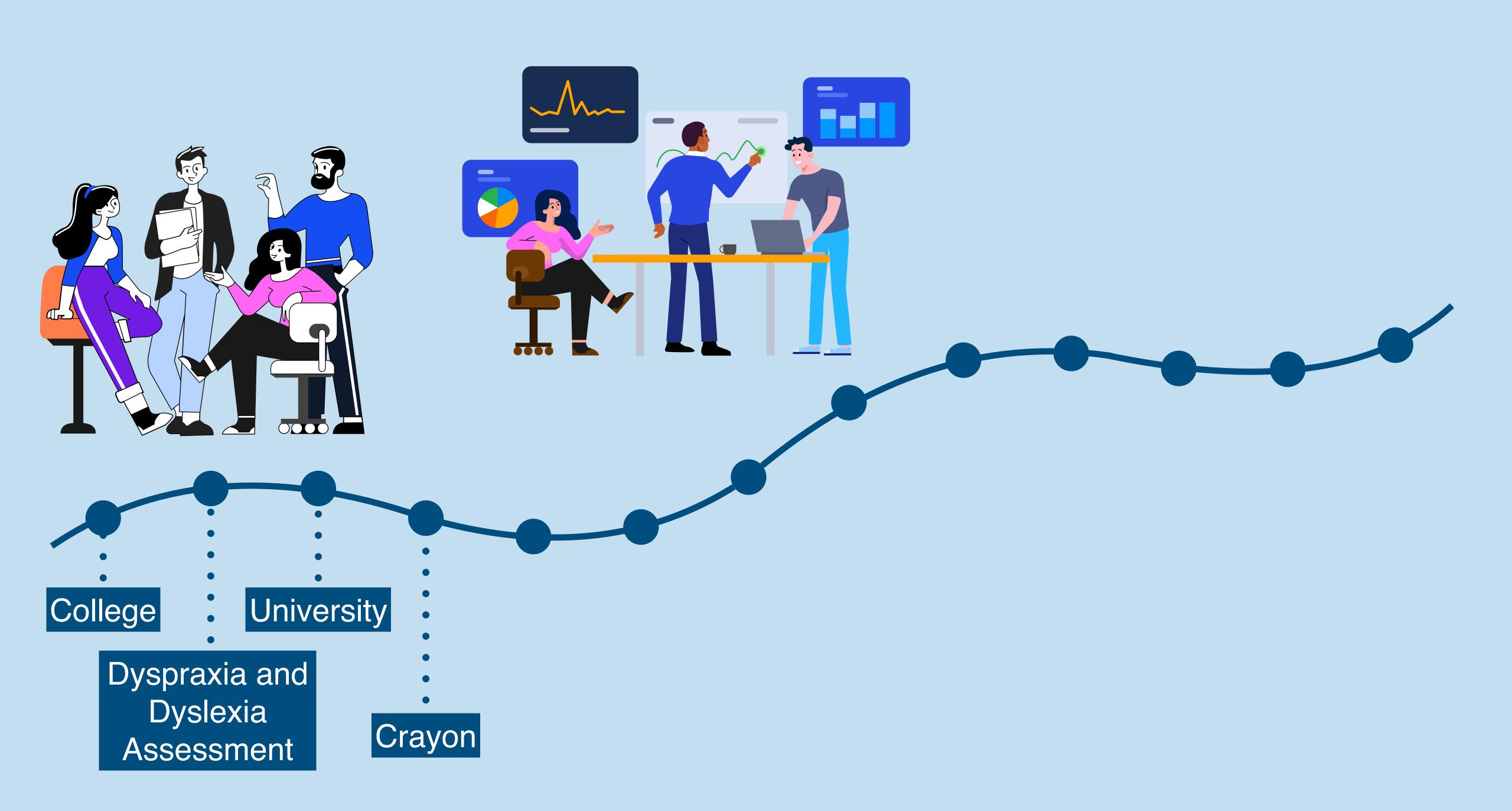


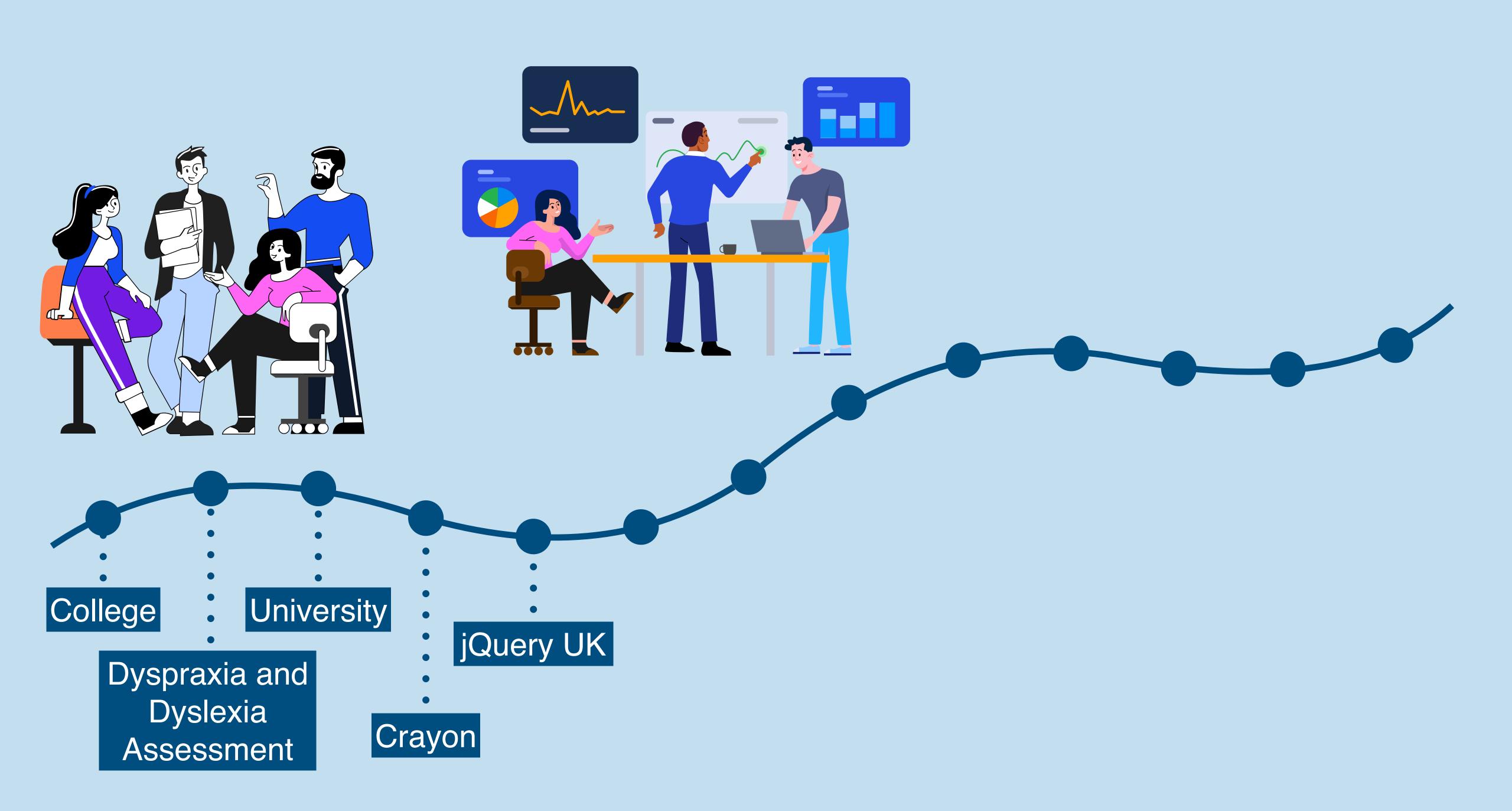


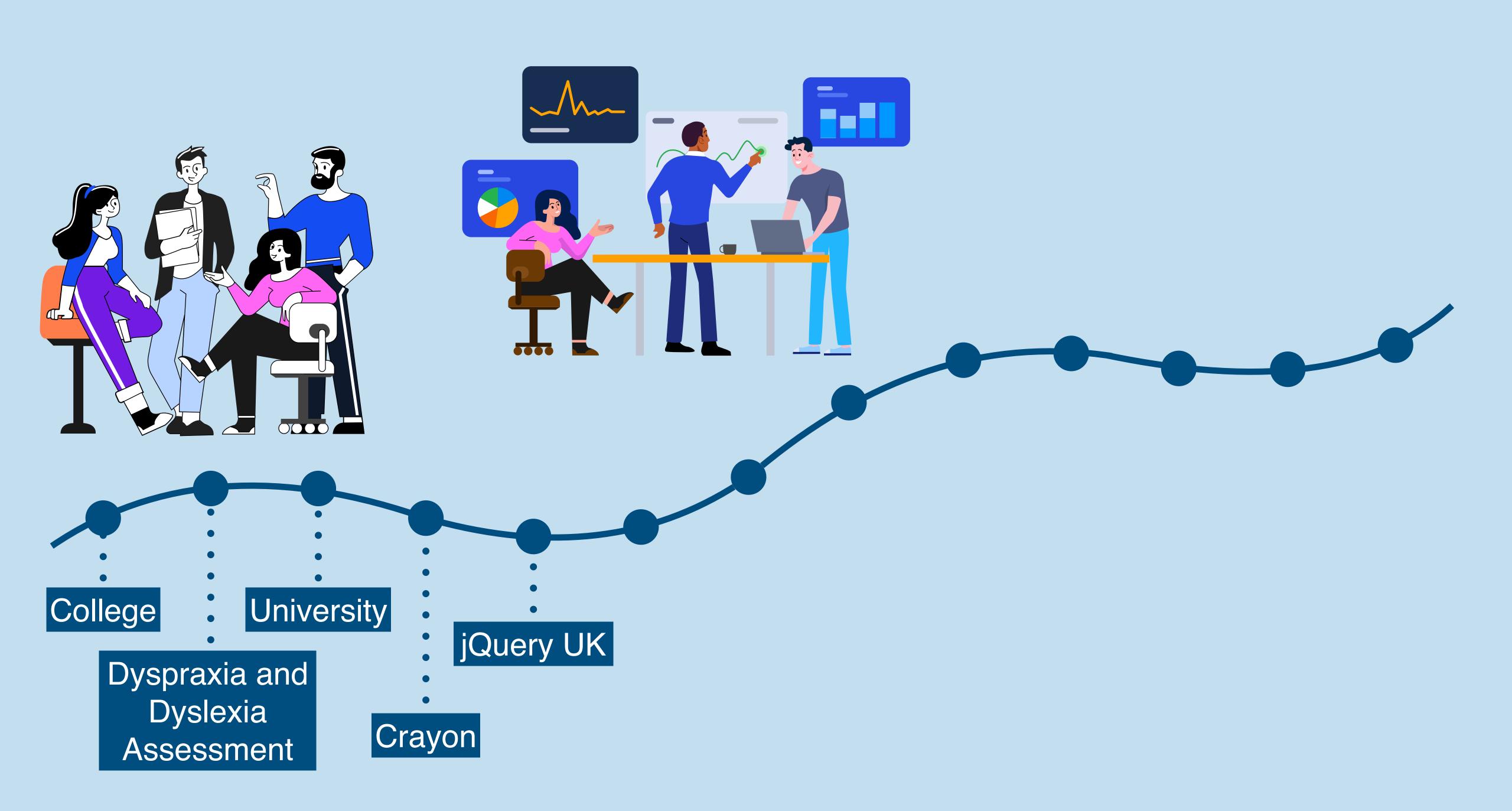


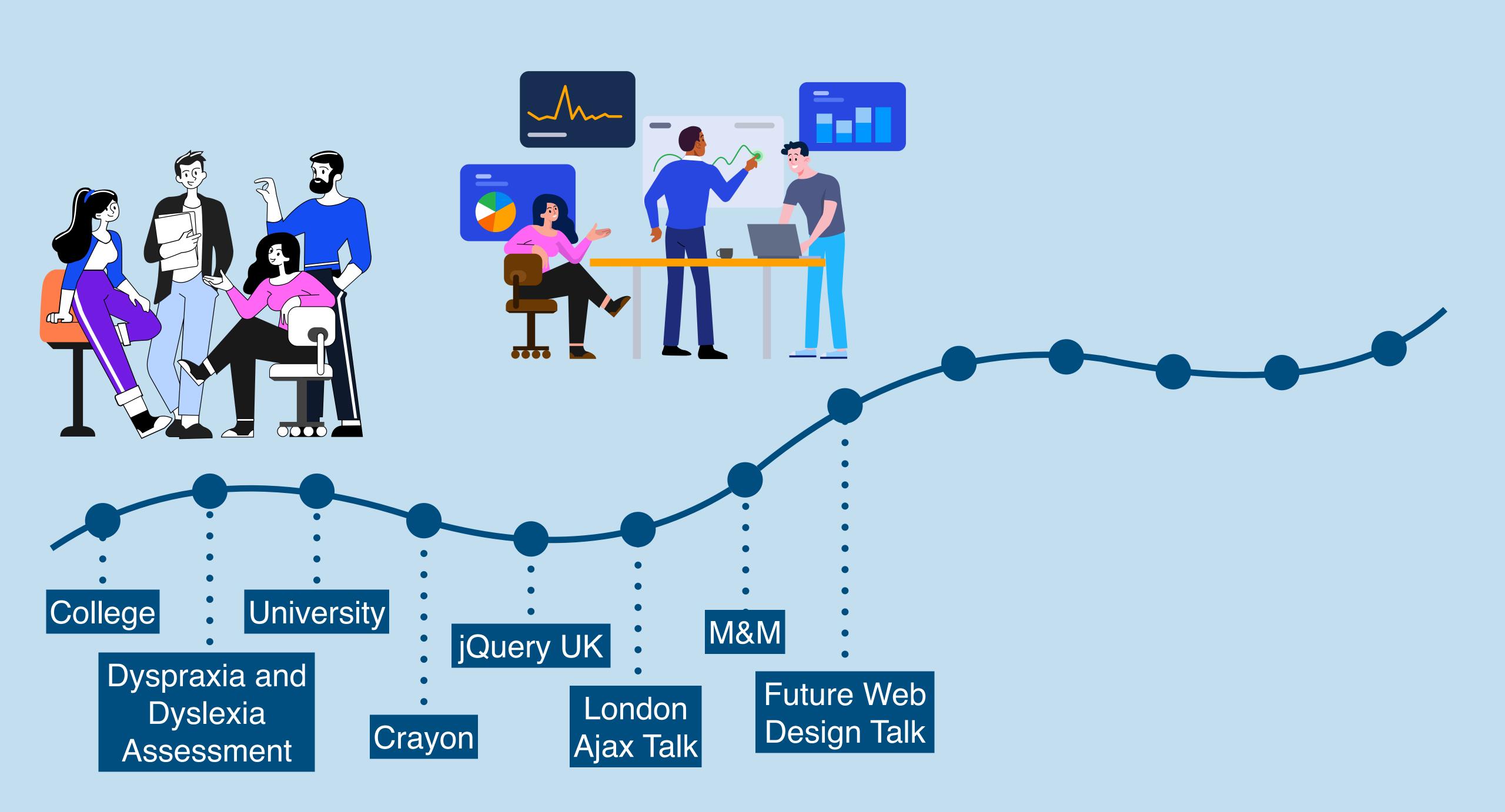


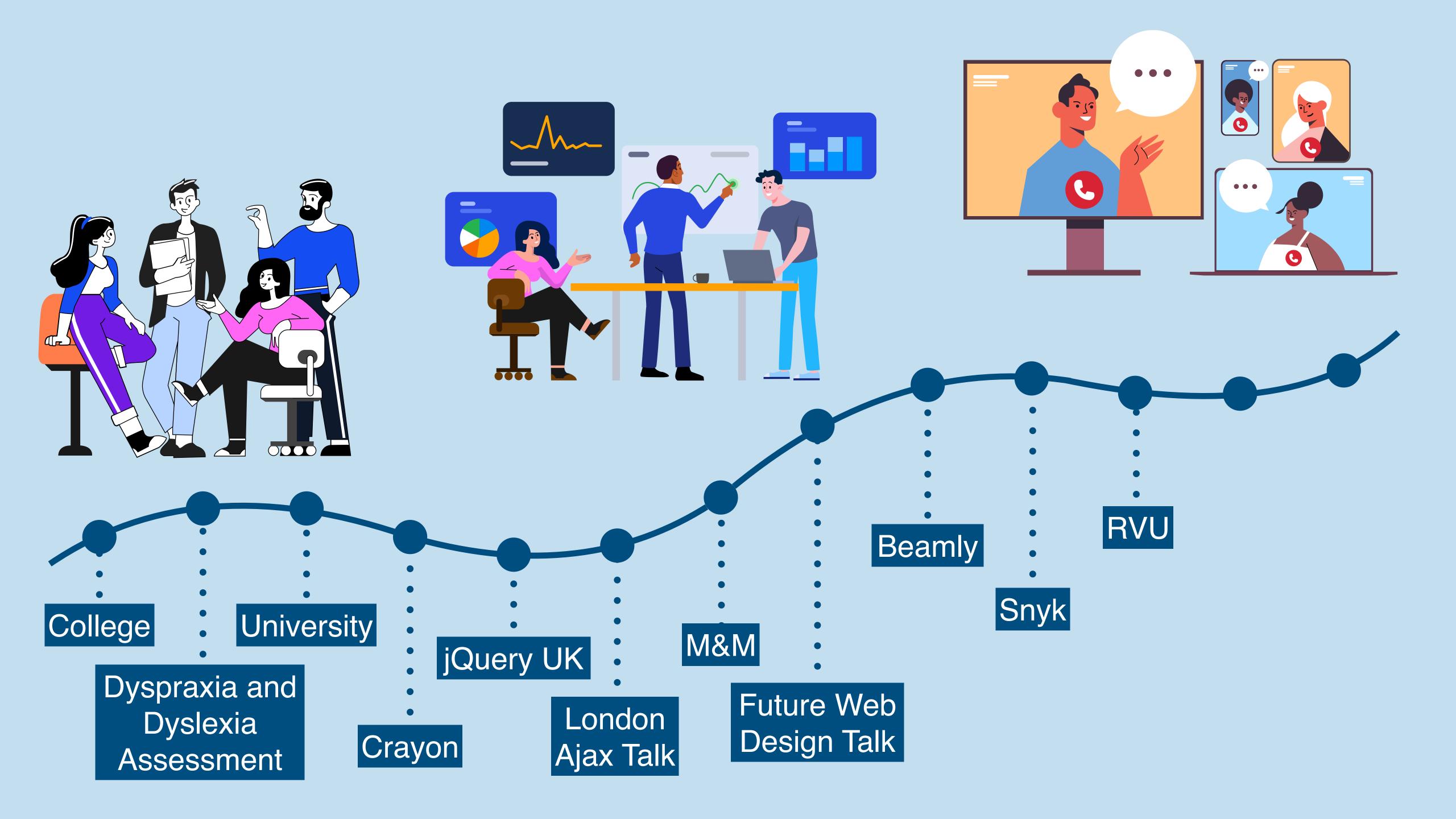


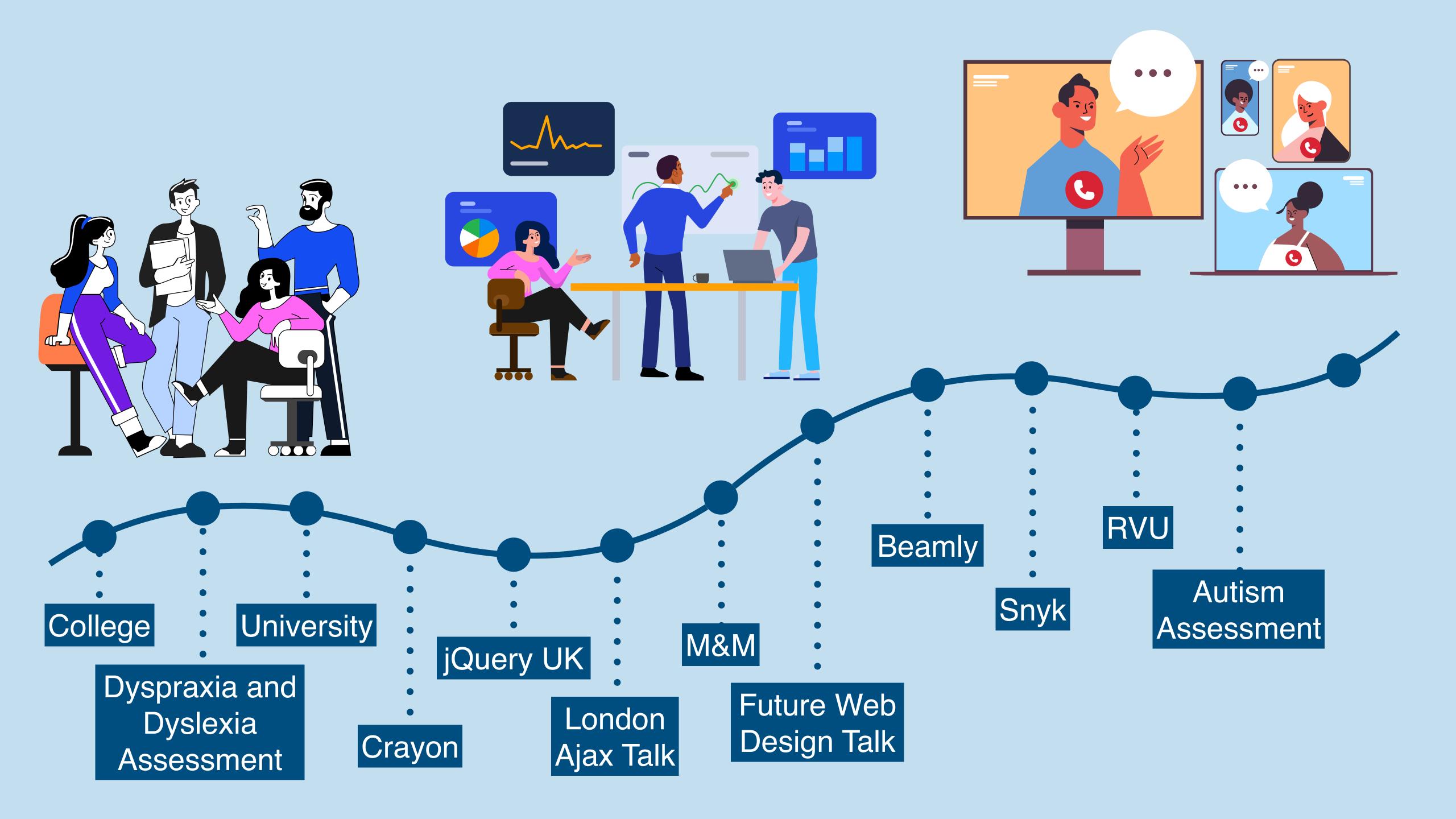


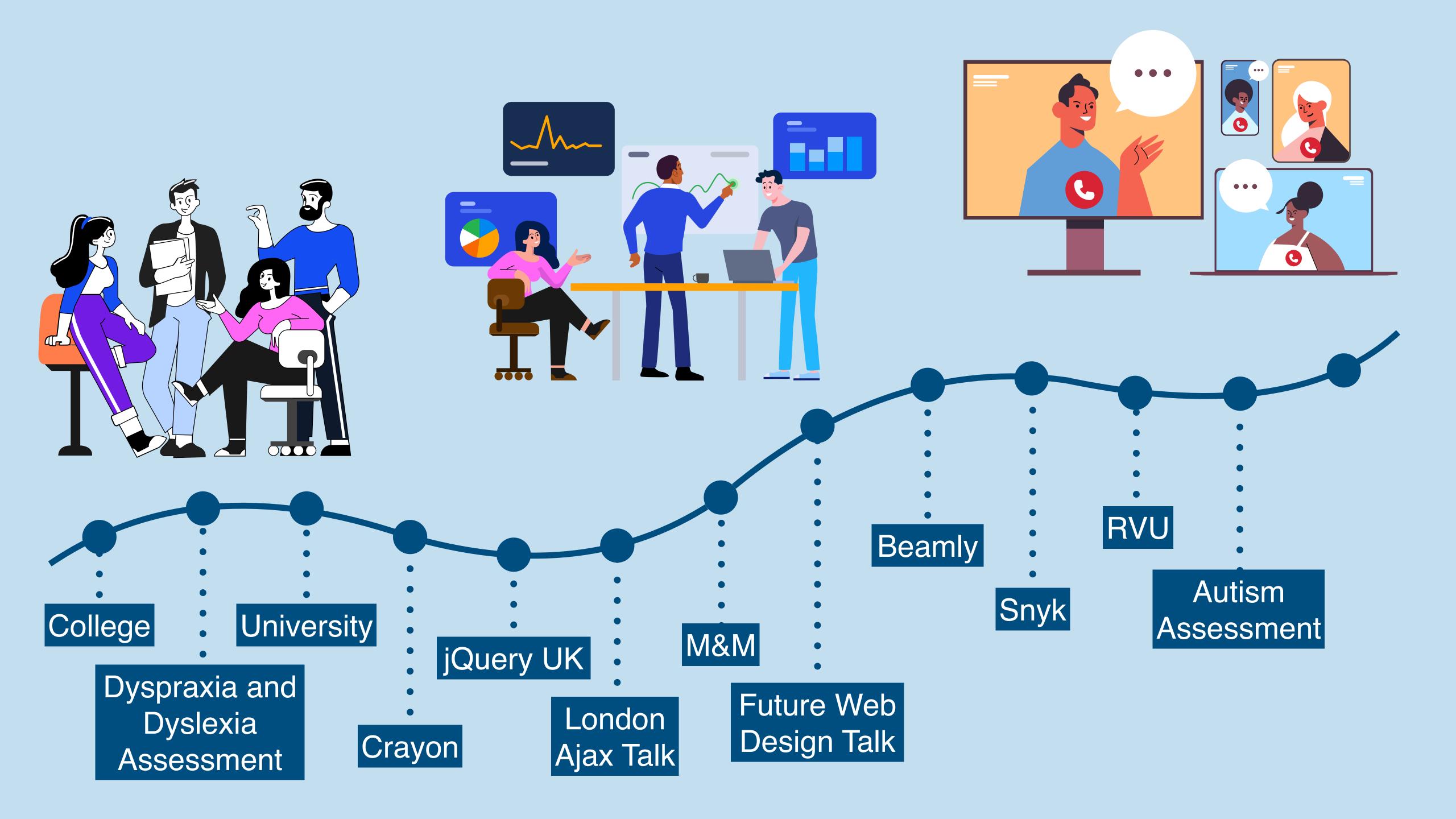


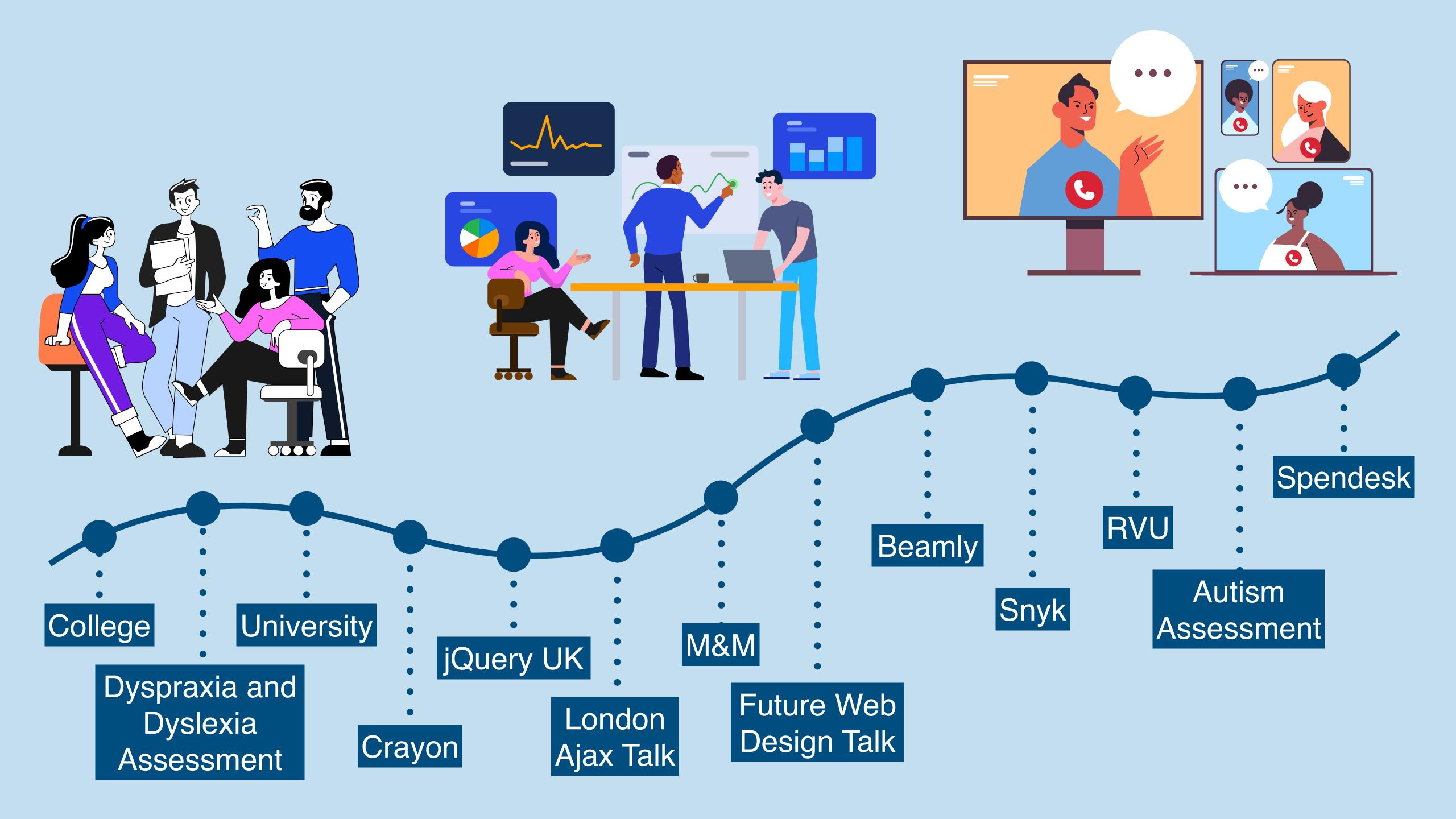














These conditions fall under the umbrella term of **Neurodiversity**

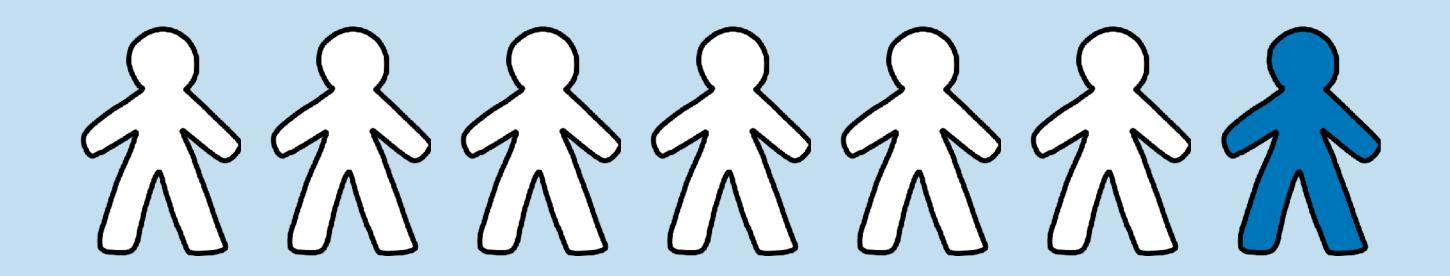




"Neurodiversity describes the idea that people experience and interact with the world around them in many different ways; there is no one "right" way of thinking, learning, and behaving, and differences are not viewed as deficits.""

Harvard Health - What is neurodiversity

When people brains work differently from the *norm* they are referred to as **neurodivergent**



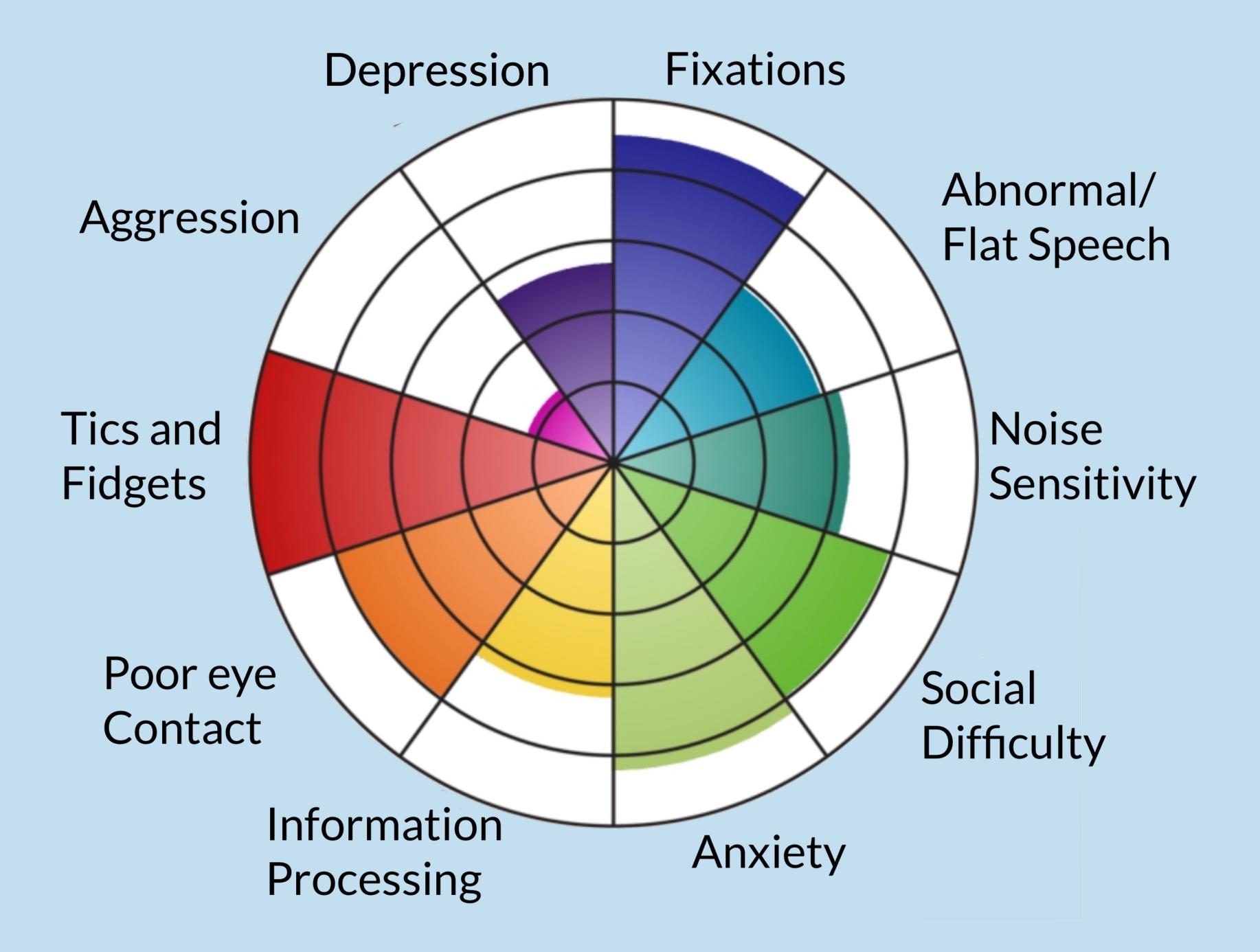
It is estimated that around 1 in 7 people are neurodivergent in the general population

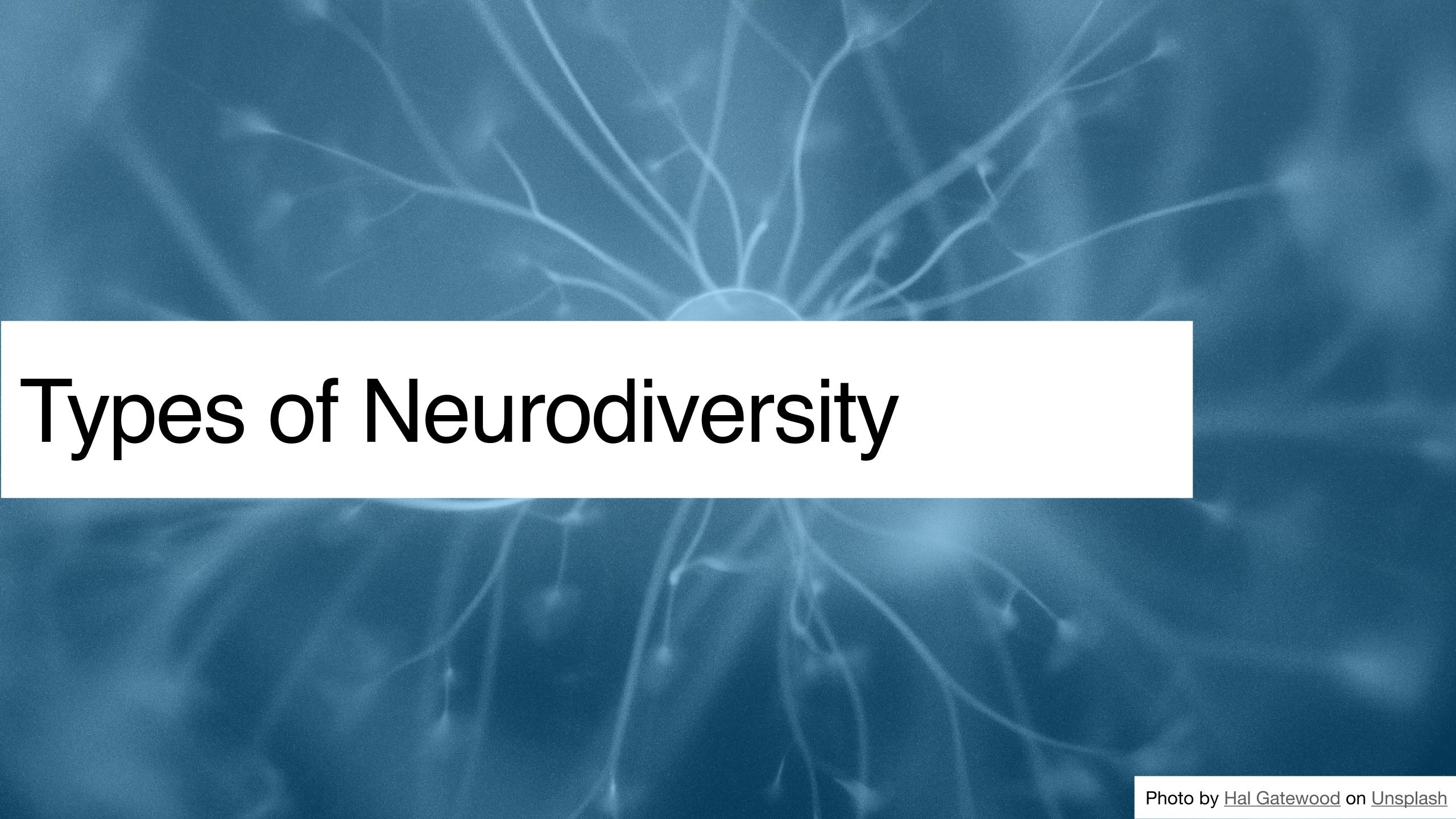
If we look more specifically at workers in tech that number increases to **53%**

However only

3%

of tech workers disclose it





Today I am going to be focusing on talking about 4 common types of neurodivergence

Symptoms are categorised into two categories

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Inattentiveness

- having a short attention span and being easily distracted
- making careless mistakes
- appearing forgetful or losing things
- being unable to stick to tasks that are tedious or time-consuming
- appearing to be unable to listen to or carry out instructions
- having difficulty organising tasks

Symptoms are categorised into two categories

Hyperactivity and impulsiveness

- constantly fidgeting
- being unable to concentrate on tasks
- excessive talking and interrupting conversations
- being unable to wait their turn
- acting without thinking
- little or no sense of danger

Stereotypes

Hyperactivity of running around the place

Interrupting conversations

Unable to concentrate on tasks

Being forgetful

Reality

Internalised hyperactivity like a busy, noisy mind

Trying to work out social cues of when they can talk

Thinking about 5/6 things simultaneously and unable to prioritise

Making notes and reminders for that thing they absolutely must remember

Strengths that can come from ADHD

Creativity

Hyper-focus

Risk tolerance

Autism

Autism

Autism is a diagnosis given to people who may have challenges with:

- Communications and interactions with other people
- Understanding how other people think or feel
- Finding things like bright lights or loud noises overwhelming, stressful or uncomfortable
- Getting anxious or upset about unfamiliar situations and social events
- Taking longer to understand information
- Doing or thinking the same things over and over

Autism

Stereotypes

Wanting things to be done their way or no way

All autistic people are savants or possess exceptional talents

Autistic people lack empathy or emotion

Reality

Struggling with situations outside of what they have 'prepared' for

Autistic people have a wide range of abilities, strengths and skills

Expressing or processing emotions differently does not mean a lack of

Autism

Strengths that can come from Autism

Logical and methodical thinking ability

Attention to detail

Passionate for their interests

Dyslexia is a diagnosis given to people who may have challenges with:

- Reading and writing very slowly
- Having poor or inconsistent spelling
- Understanding information when told verbally, but having difficulty with information that's written down
- Planning and organisation

Stereotypes

Dyslexic people can't read

Dyslexics just need to try harder

Dyslexia is a visual problem

Reality

Dyslexia makes it difficult to decode and comprehend, not read

The type of instruction makes a difference, not the effort

Dyslexic people are no more likely to have vision problems than others

Strengths that can come from Dyslexia

Good visual-spatial reasoning

Think outside of the box

Excel in areas that do not depend on reading, such as math and computers

Dyspraxia is a diagnosis given to people who may have challenges with:

- Co-ordination, balance and movement
- Learning new skills, thinking and remembering information
- Writing, typing, drawing and grasping small objects
- Managing emotions
- Time management, planning and organisational skill

Stereotypes

People with dyspraxia are just clumsy

People with dyspraxia have low intelligence

People with Dyspraxia are just disorganised

Reality

Carefully walking everywhere but still bumping into and tripping over things

Struggles with fine motor skills does not equate a low intellect

Trying to keep everything in order and still having no clear "organisation"

Strengths that can come from Dyspraxia

Creative thinking

Excel at problem solving

Sensitive to the needs of others



DID & OSDD

BPD NPD

ASPD

DYSLEXIA CPTSD

DYSPRAXIA HSP

SENSORY PROCESSING

PTSD DYSCALCULIA

DYSGRAPHIA

AUTISM

EPILEPSY

GAD

OCD

ABI/TBI

TIC DISORDERS

SCHIZOPHRENIA

MISOPHONIA

HPD

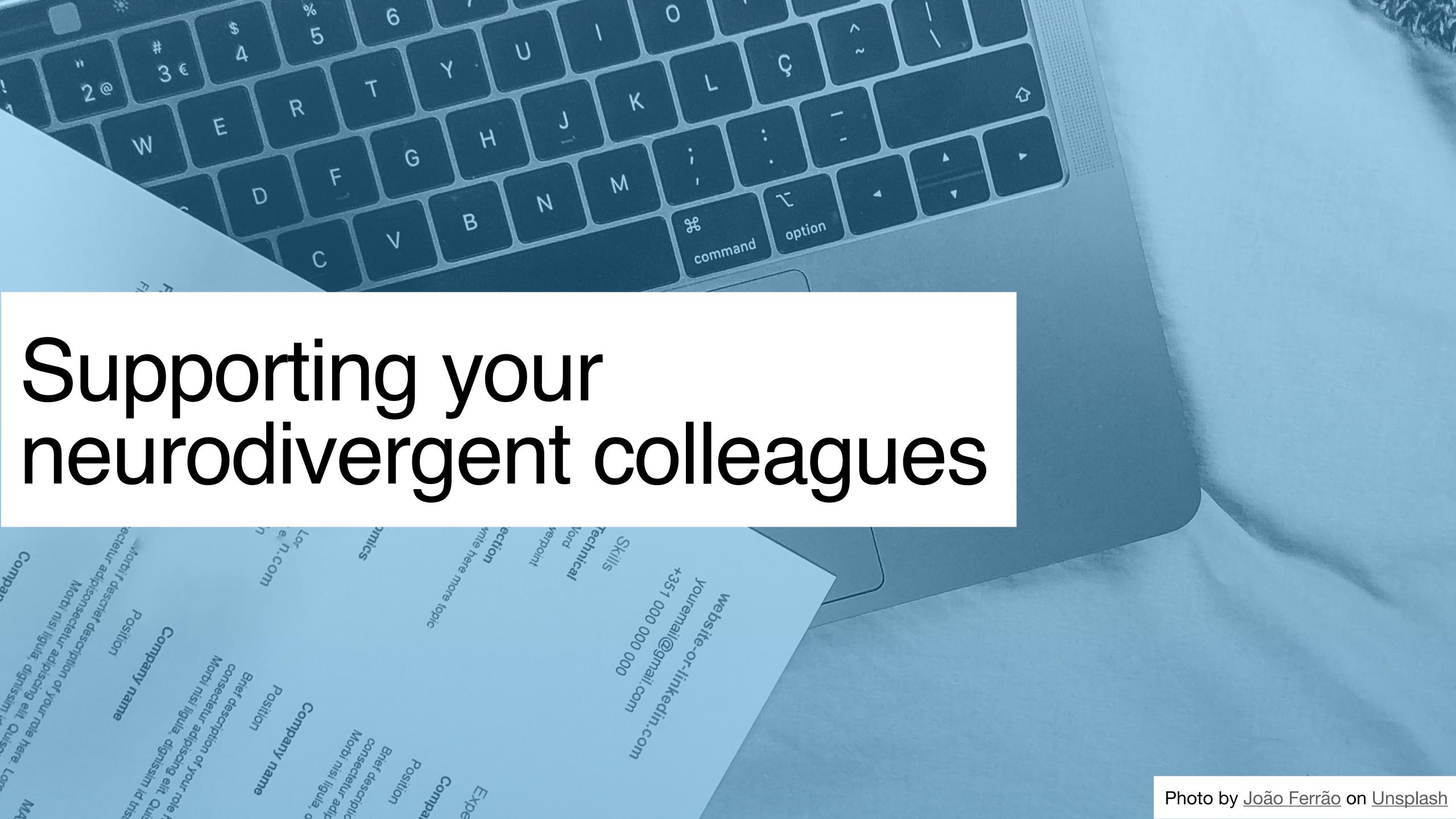
DOWN SYNDROME

FASD

SYNESTHESIA

A lot of these conditions can co-exist

Sometimes the symptoms a neurodivergent person might be hidden, this is referred to as **masking**



Provide Psychological Safety

Provide a space where they feel safe to share about themselves

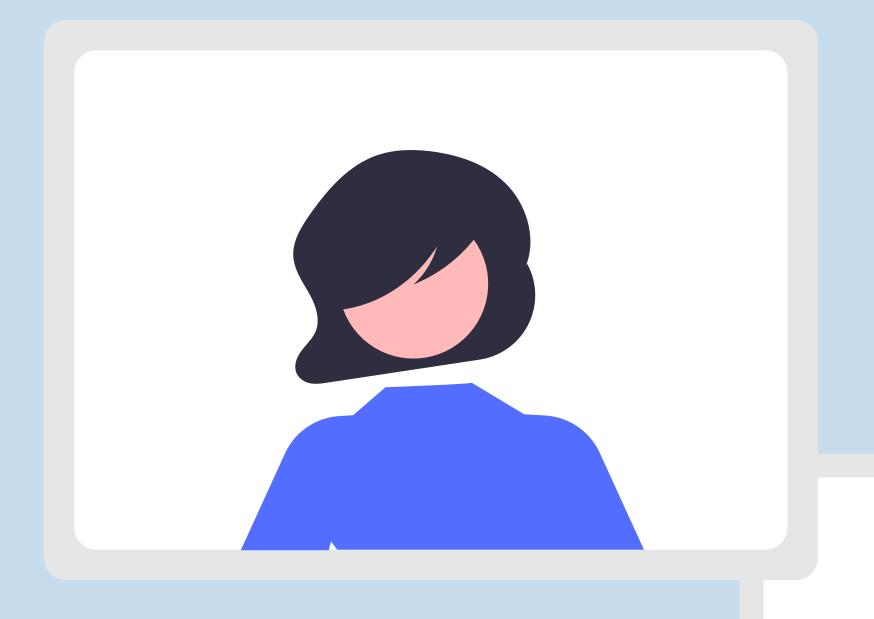


Ensure they feel comfortable with asking questions



2 Communication

Ensure meetings are clear in their focus



Adapt communication to ensure it is clear and concise



Support important communications in more than one format

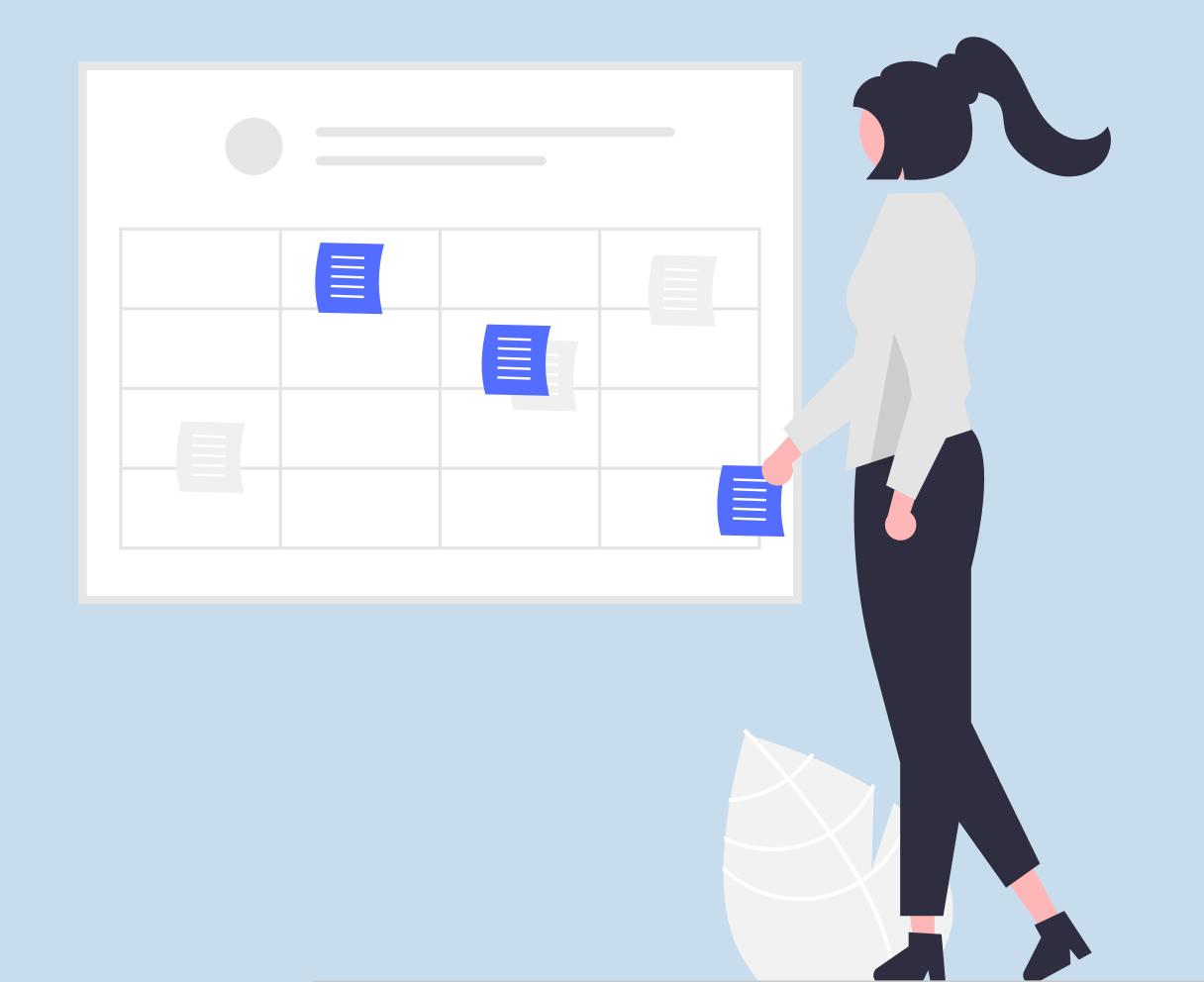


Assume best intent in communication



Time management

Provide a clear routine and work schedule



Give clear and concise instructions for tasks



Support them to ambiguity

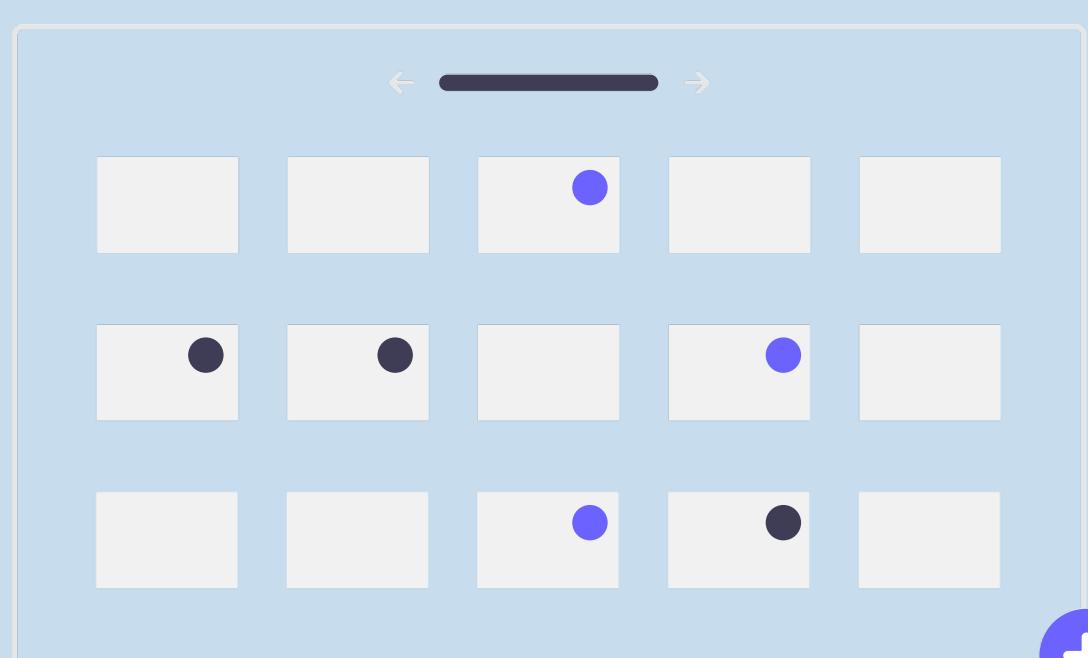


Set clear deadlines



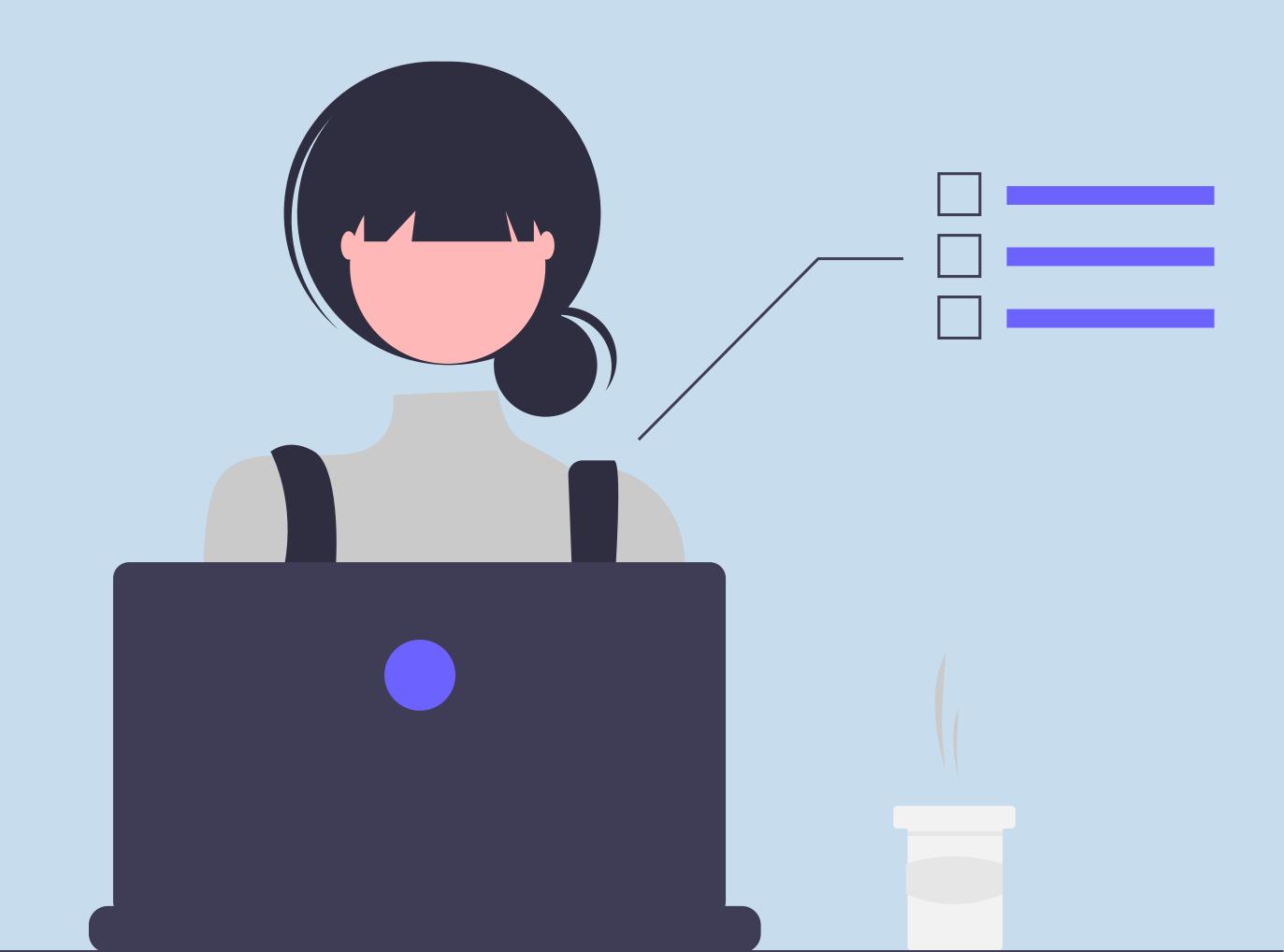
4 Attention and focus

Ensure there is adequate spacing between meetings





Be mindful of their focus time



6 Sensory Sensitivity

Give people the option for a personal desk in the office

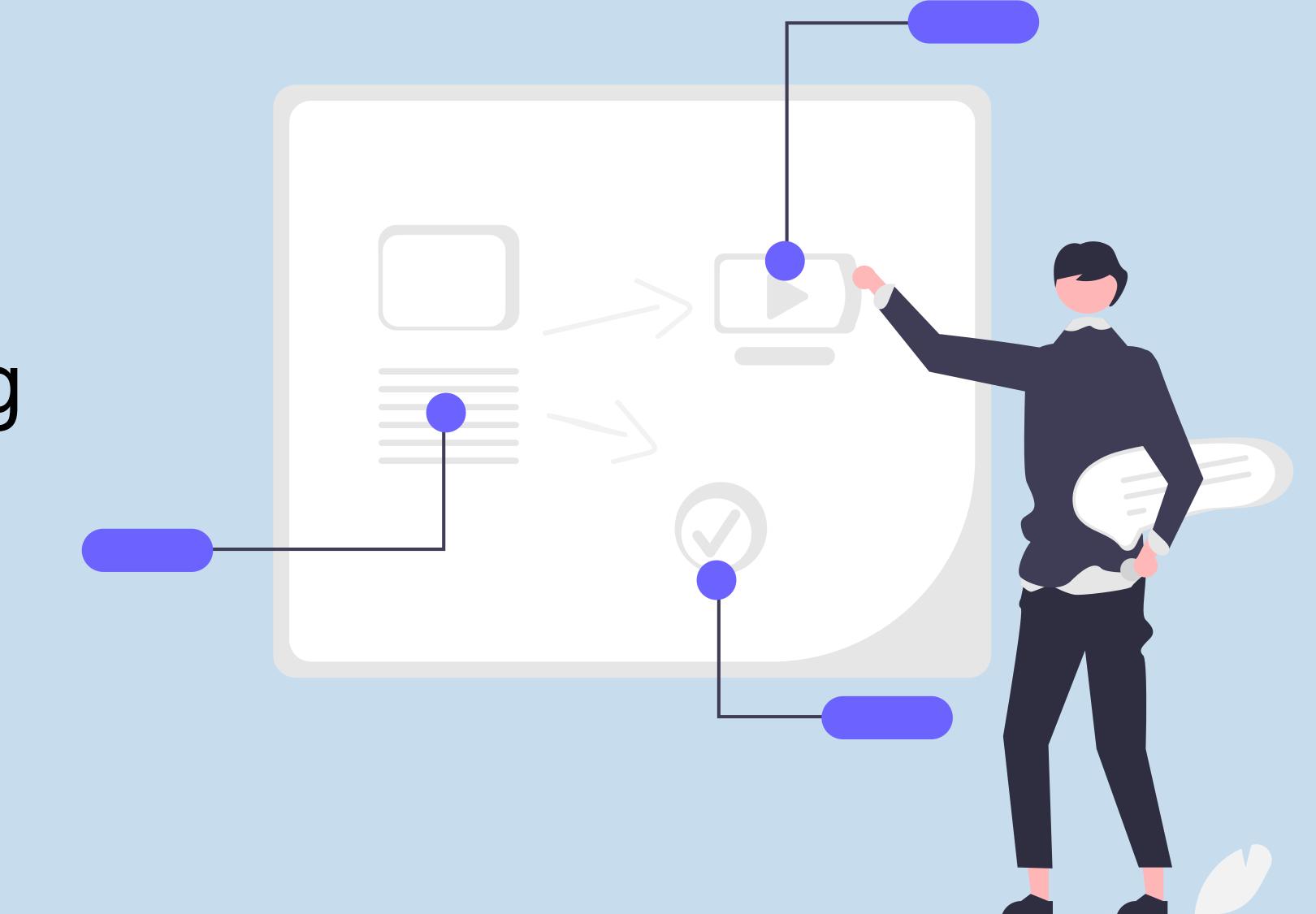


Help them to avoid sensory distractions

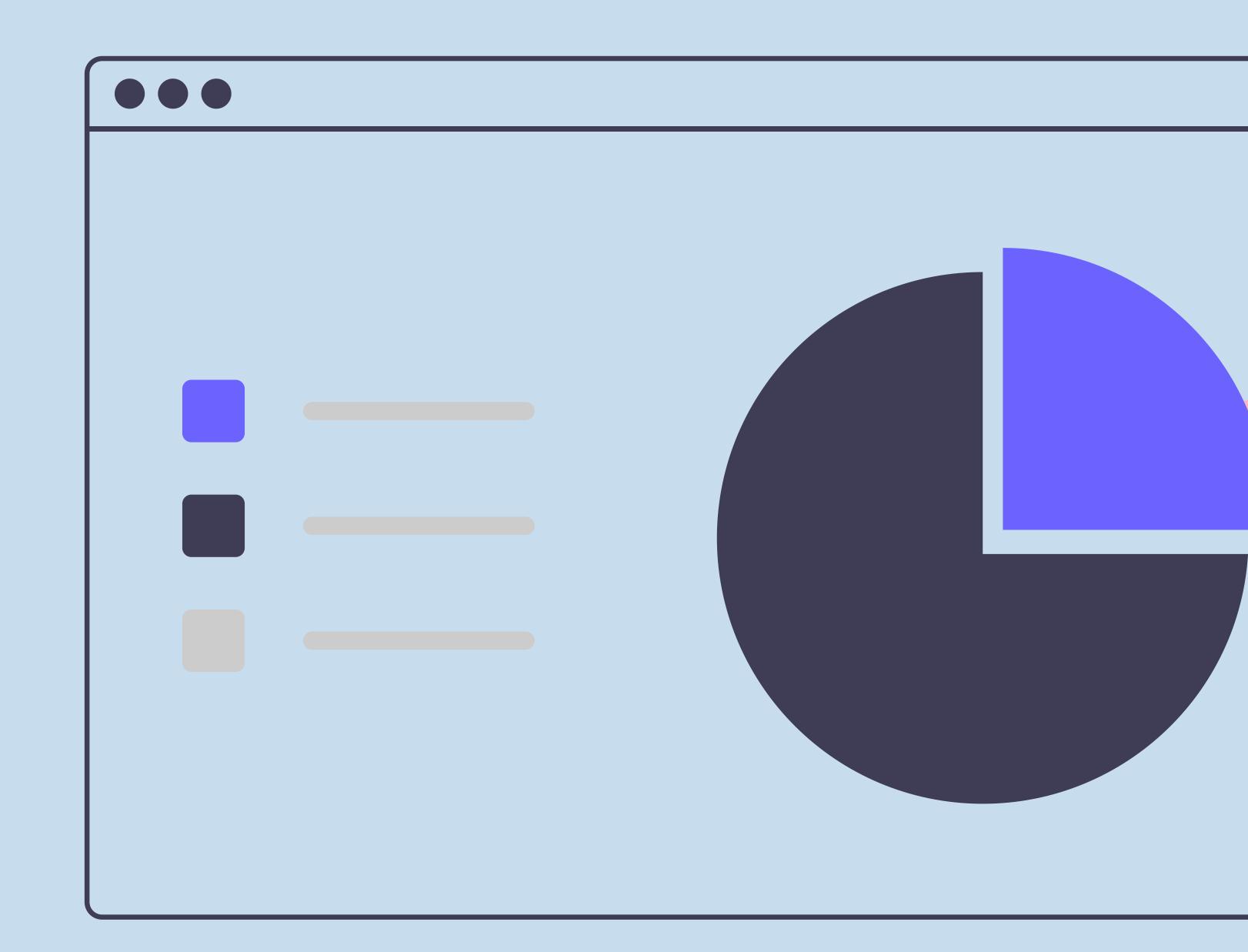


6 Information processing

Adapt how we carry out training



Adapt how you present data



Adapt how you give feedback





Every neurodivergent individual is different

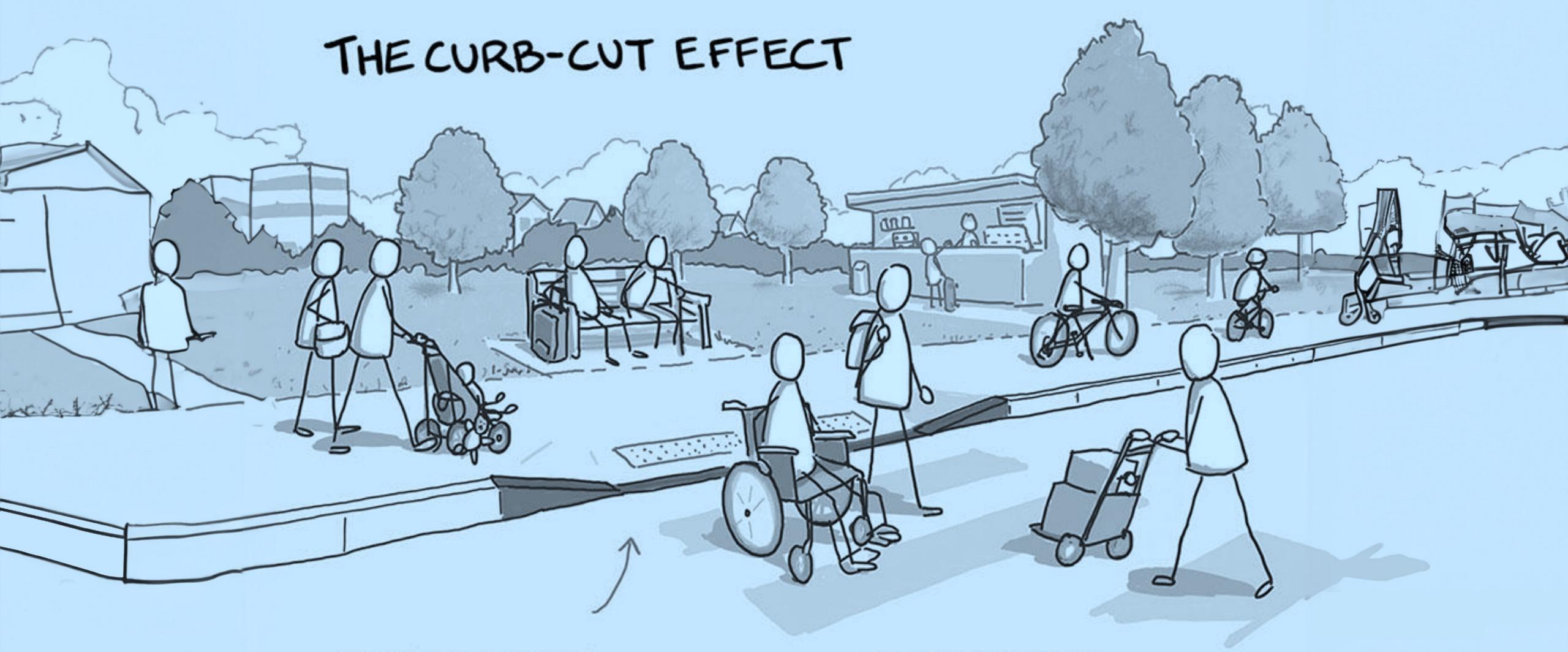
Adapting how we work will lead to our teams working in a more inclusive way

Through having empathy, we can help our colleagues be at their best

Prioritise the needs of the few rather than the convenience of the many



Further resources at: jonathanfield.ing/leaddev



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

sketchplanations