Outcome Format Exploration

Instructions: We need examples of different ways to write outcomes so we can select an initial format. Outcomes can be written as user statements, needs statements, requirements, questions, or technical statements. There are likely other approaches. We would like to explore each of these to make an initial decision about how to write them.

Outcome, for the purpose of this exercise, refers to the list of Outcomes that was created by the group in Fall 2023 and will eventually evolve into final guidance (comparable to wcag 2 success criteria) in WCAG 3. Outcomes are defined as verifiable statements. They are more granular and more focused on the desired results than the technical means for achieving them. More granular means they are more specific, instead of broad. That generally makes them simpler. It also means there will be more WCAG 3 outcomes than WCAG 2 success criteria.

We need members to do the following before the 6 February Meeting. It takes about 30 minutes.

1. Select one of the Exemplar Outcomes below.
2. Write your name next to the outcome in the list “Exemplar Outcomes” below
3. Read about the outcome in the linked scratchpad.
4. Write the outcome as a:
    - User statement (Users with/who [list highest level disabilities supported], can [outcome])
    - Needs statement (I need [outcomes])
    - Requirements ([technical component] shall [outcome])
    - Question (Does [outcome as question where answering yes passes])
    - Technical statement passive voice ([technical component] is [outcome])
    - Technical statement active voice ([technical component] [verb] [outcome])
    - Optional Other (Any other format you’d like to try)

Please assume an essential exception applies to all of these so you don’t have to write it in.

Exemplar Outcomes

This list links to the template further down in the document

- **Acronyms and abbreviations**: Provide expanded versions of acronyms and abbreviations (Wilco Fiers)
- **Adequate time before timeout**: I need to have adequate time to complete a task before timeout. (Glenda Sims)

- **Conversational support:** Provides conversational support that allows both text and verbal communication (GreggV)
- **Section Labels**: Sections of content have clear visual and programmatic labels (Alastair)
- **Customizable**: Content supports customization (Dan Bjorge)
- **Media Control**: Users can control media playback
- **Change of Content Awareness**: Users are made aware of content that has changed or updated, regardless of the update speed.
- **Image Alt Text**: Provide text alternatives for images. (Frankie Wolf)
- **Gestures & Dragging**: Every function that can be operated by a pointer, can be operated by a 'single pointer input' or a sequence of single pointer inputs, without limitations on timing for input.
- **Safe from Audio Shifting**: Audio shifting designed to create a perception of motion is under user-control.

Example: No Cognitive Tests

Original: Processes, including login/authentication, can be completed without puzzles, calculations, or other cognitive tests.

- **User statement:** Users with limited cognition or memory are able to complete processes, including login and authentication, without remembering a password, solving a puzzle or calculation, or passing another cognitive test.
- **Needs statement:** I need to complete processes, including login and authentication, without remembering a password, solving a puzzle or calculation, or passing another cognitive test.
- **Requirements:** Completing a process shall not require remembering a password, solving a puzzle or calculation, or passing another cognitive test.
- **Question:** Is it possible to complete all steps in a process without remembering a password, solving a puzzle or calculation, or passing another cognitive test?
- **Technical statement passive voice:** A cognitive test such as remembering a password or solving a puzzle or calculation is not required for any step in a process.
- **Technical statement active voice (or Assertive):** Completing steps in a process do not require a cognitive test such as remembering a password or solving a puzzle or calculation.
- **Optional Other**: None

Acronyms and abbreviations

Original: Provide expanded versions of acronyms and abbreviations (scratchpad)

- User statement (Users with/who [list highest level disabilities supported], can [outcome]
    - Users with cognitive and learning disabilities can find extended versions of acronyms and abbreviations.
- Needs statement (I need [outcomes])
    - I need expanded versions of acronyms and abbreviations
- Requirements ([technical component] shall [outcome])
    - For abbreviations and acronyms a mechanism for expanding their meaning shall be provided.
- Question (Does/Is it [outcome as question where answering yes passes])
    - Is it possible to expand acronyms and abbreviations?
- Technical statement passive voice ([technical component] is [outcome])
    - Acronyms and abbreviations have an expanded version
- Technical statement active voice ([technical component] [verb] [outcome])
    - Provide expanded versions of acronyms and abbreviations
- Optional Other (Any other format you'd like to try)
    - Where: All abbreviations and acronyms
    - What: The meaning of these terms can be expanded
    - Why: Users with cognitive and learning disabilities have a way to recall the meaning of text.

Adequate time before timeout

Original: I need to have adequate time to complete a task before timeout. (scratchpad)

- **User statement (Users with/who [list highest level disabilities supported], can [outcome]**
    a. Users with visual, fine motor and cognitive disabilities have a way to complete a task before timeout.
- **Needs statement (I need [outcomes])**
    a. I need to have adequate time to complete a task before timeout.
- **Requirements ([technical component] shall [outcome])**
    a. For each timeout at least one of the following shall exist:
        i. a mechanism to disable or extend the timeout
        ii. an alternative workflow to perform the same function with no timeout
        iii. a mechanism to save progress before the timeout
    b. Exception: The timeout is essential and disabling it or extending it would invalidate the activity.
- **Question (Does/Is it [outcome as question where answering yes passes])**
    a. Is it true that no timeout exists?
        i. [(a. Yes) = Passes] < no more questions to answer!
        ii. No. Continue to next question:

b. Is there a mechanism to disable or extend the timeout prior to starting the task OR while doing the task?
    i. AND can the timeout be extended at least 10 times the length of the default timeout setting? [(b. Yes + i. Yes) = Passes] < no more questions to answer!
    ii. OR is a warning provided before time expires that gives the user at least 20 seconds to extend the time limit with a simple action (for example, "press the space bar"), AND the user can extend the time limit at least ten times? [(b. Yes + ii. Yes) = Passes] < no more questions to answer!
c. Is there a mechanism to save task progress before the timeout?
    i. Is all the data the user entered in this task (before the timeout occurs) saved? [(c. Yes + i. Yes) = Passes] < no more questions to answer!

- **Technical statement passive voice ([technical component] is [outcome])**
    a. When a timeout exists, the user is allowed by a mechanism to disable or extend the timeout.
- **Technical statement active voice ([technical component] [verb] [outcome])**
    a. When there is a timeout, a mechanism exists that allows users to disable or extend the timeout.
- **Optional Other (Any other format you'd like to try)**
    a. **Where/What/Why**
        i. **Where**: A timeout exists in a task/workflow
        ii. **What:** The timeout can be
            1. disabled,
            2. extended,
            3. avoided
                a. by using an alternative path (with NO timeout) to complete the same task/workflow.
        iii. **Exception:** The timeout is essential.
        iv. **Why:** Users with visual, fine motor and cognitive disabilities have a way to complete a task before timeout.
    b. AI Prompt

Conversational support

Original: Provides conversational support that allows both text and verbal communication (scratchpad)

- **User statement:** Users who communicate in forms different from speech need to be able to get support in their regular form of conversation whenever/wherever people who use speech are able to.
- **Needs statement:** I need conversational user support to support all forms of conversational communication.
- **Requirements:** Where any conversational user support is provided it shall be provided in voice, real-time text, and sign.

- **Question:** Does any conversational support allow users to communicate in speech, real-time text, or sign?
- **Technical statement passive voice:** All conversational support allows users to communicate in speech, real-time text, or sign
- **Technical statement active voice:** When providing conversational support, allow users to communicate in speech, real-time text, or sign.
- **Optional Other:**
- **NOTES:**
    a. This does NOT require that conversational user support itself be provided for every since that would make it impossible for many people to conform including teachers, individuals, small groups, small companies, sites that document an event and then go dormant (but still want to be accessible) etc.
    b. It also avoids use of “human” anywhere since we already do, and increasingly will, have conversational support provided by technology and artificial human agents.

Section Labels

Original: Sections of content have clear visual and programmatic labels (scratchpad)

- **User statement** (Users with/who [list highest level disabilities supported], can [outcome]
    a. Users can navigate to *programmatically determinable* areas of the *view*.
    b. (alternative) Users need to be able to navigate to *programmatically determinable* areas of the *view*.
    c. Users can visually recognise areas of the *view*.
- Needs statement (I need [outcomes])
    a. I need to navigate to *programmatically determinable* areas of the *view*.
    b. I need to visually recognise *areas* of the *view*.
- **Requirements** ([technical component] shall [outcome])
    a. *Sections of content* shall have a programmatic and visual label
- Question (Does/Is it [outcome as question where answering yes passes])
    a. Does each *section of content* have clear visual and programmatic label?
- **Technical statement passive voice** ([technical component] is [outcome])
    a. Clear visual and programmatic labels are available on sections of content
- Technical statement active voice ([technical component] [verb] [outcome])
    a. Provide clear visual and programmatic labels on *sections of content*
- Optional Other (Any other format you’d like to try)

Customizable

Original: Content supports customization (scratchpad)

- User statement (Users with/who [list highest level disabilities supported], can [outcome]
- Needs statement (I need [outcomes])
- Requirements ([technical component] shall [outcome])
- Question (Does/Is it [outcome as question where answering yes passes])

- Technical statement passive voice ([technical component] is [outcome])
- Technical statement active voice ([technical component] [verb] [outcome])
- Optional Other (Any other format you'd like to try)

Media Control

Original: Users can control media playback (scratchpad)

- User statement (Users with/who [list highest level disabilities supported], can [outcome]
- Needs statement (I need [outcomes])
- Requirements ([technical component] shall [outcome])
- Question (Does/Is it [outcome as question where answering yes passes])
- Technical statement passive voice ([technical component] is [outcome])
- Technical statement active voice ([technical component] [verb] [outcome])
- Optional Other (Any other format you'd like to try)

Change of Content Awareness

Original: Users are made aware of content that has changed or updated, regardless of the update speed. (scratchpad)

- User statement (Users with/who [list highest level disabilities supported], can [outcome]
- Needs statement (I need [outcomes])
- Requirements ([technical component] shall [outcome])
- Question (Does/Is it [outcome as question where answering yes passes])
- Technical statement passive voice ([technical component] is [outcome])
- Technical statement active voice ([technical component] [verb] [outcome])
- Optional Other (Any other format you'd like to try)

Image Alt Text

Original: Provide text alternatives for images. (scratchpad)

- **User statement:** Users without vision are provided with non-visual alternatives that serve the same purpose and present the same information as images.
- **Needs statement:** I need non-visual alternatives that serve the same purpose and present the same information as images.
- **Requirements:** Understanding the purpose and content of images shall not require vision.
- **Question:** Is the purpose and content of images understandable when the image is not visible?
- **Technical statement passive voice:** Vision is not required to understand the purpose and content of images.
- **Technical statement active voice:** Understanding the purpose and content of images does not require vision.
- **Optional Other:** None

Original: Provide text alternatives for images of text. (scratchpad)

- **User statement:** Users without vision can understand the text contained within images, including what the text says and whether the styling contributes to the meaning.
- **Needs statement:** When text is used in an image, I need to know what the text says and whether the styling contributes to the meaning.
- **Requirements:** Images of text shall be described in non-visual ways that include what the text says and whether the styling contributes to the meaning.
- **Question:** For images of text, are there non-visual alternatives that describe what the text says and whether the style contributes to the meaning?
- **Technical statement passive voice:** Non-visual alternatives are provided for images of text that describe what the text says and whether the style contributes to the meaning.
- **Technical statement active voice:** For images of text, non-visual alternatives describe what the text says and whether the styling contributes to the meaning.
- **Optional Other:** None

Modified Objective: Provide non-visual alternatives for informative images. (scratchpad)

- **User statements:**
    a. Users without vision are able to determine whether an image is decorative or informative.
    b. Users without vision are able to access the non-visual content of an image (for example, alt text, metadata, date and time stamps, and so on).
    c. When images are informative, users without vision are provided with non-visual alternatives that describe the purpose and content of the image within the context of the surrounding content.
    d. When informative images contain text, users without vision are provided with non-visual alternatives that describe what the text says and whether the text styling contributes to its meaning.
    e. When the format of an informative image is important to conveying its meaning, users without vision are provided with non-visual alternatives that include the image format (for example, color photo, grayscale sketch, product advertisement, and so on).
    f. Users without vision are able to determine if the alt text provided for an image was generated by AI.
- **Needs statements:**
    a. I need to know if an image is decorative or informative.
    b. I need to be able to access the non-visual content of an image, including alt text, metadata, date and time stamps, and so on.
    c. If an image is informative, I need a non-visual alternative that describes the purpose and content of the image within the context of the surrounding content.
    d. If an informative image includes text, I need non-visual alternatives that describe what the text says and whether the text styling contributes to the meaning.

    e. If the format of an informative image is important to conveying its meaning, I need a non-visual alternative that includes the image format (for example, color photo, grayscale sketch, product advertisement, and so on).
    f. I need to know if the non-visual alternative provided for an image was automatically-generated by AI.
- **Requirements:**
    a. Determining whether an image is decorative or informative shall not require vision.
    b. Accessing the non-visual content of an image (for example, alt text, metadata, date and time stamps, and so on) shall not require vision.
    c. Understanding the purpose and content of images within the context of the surrounding content shall not require vision.
    d. Understanding the text used within images, including what the text says and whether its styling contributes to its meaning, shall not require vision.
    e. Understanding the format of an image (for example, color photo, grayscale sketch, product advertisement, and so on) shall not require vision.
    f. Understanding whether alt text provided for images was automatically-generated by AI shall not require vision.
- **Questions:**
    a. Are users without vision able to determine whether an image is decorative or informative?
    b. Are users without vision able to access the non-visual content of an image (for example, alt text, metadata, date and time stamps, and so on)?
    c. Is the purpose and content of informative images understandable within the context of the surrounding content when the image is not visible?
    d. If an informative image has text, is it clear what the text says and whether the styling contributes to the meaning when the image is not visible?
    e. If the format of an informative image is important to understanding its meaning, is a description of the image format included in the non-visual alternative?
    f. Is it clearly communicated when non-visual alternatives provided to screen readers were automatically generated by AI?
- **Technical statements passive voice:**
    a. Vision is not required to understand the purpose and content of images.
    b. Vision is not required to access the non-visual content of an image (for example, alt text, metadata, date and time stamps, and so on).
    c. Vision is not required to understand the purpose and content of images within the context of the surrounding content.
    d. Vision is not required to understand what the text says or whether the text styling contributes to its meaning when images contain text.
    e. Vision is not required to understand the format of an image when the image format is important to understanding its meaning.
    f. Vision is not required to understand when non-visual alternatives were automatically generated by AI.
- **Technical statements active voice:**

    a. Understanding whether an image is decorative or informative does not require a user to have vision.
    b. Accessing the non-visual content of an image (for example, alt text, metadata, date and time stamps, and so on) does not require a user to have vision.
    c. Understanding the purpose and content of images within the context of the surrounding content does not require a user to have vision.
    d. When informative images contain text, understanding what the text says and whether the text styling contributes to its meaning does not require a user to have vision.
    e. When the format of an informative mage is important to its meaning, understanding the format of the image does not require a user to have vision.
    f. Understanding when non-visual alternatives are automatically generated by AI does not require a user to have vision.
- **Optional Other:** None

Gestures & Dragging

Original: Every function that can be operated by a pointer, can be operated by a 'single pointer input' or a sequence of single pointer inputs, without limitations on timing for input. (scratchpad)

- User statement (Users with/who [list highest level disabilities supported], can [outcome]
- Needs statement (I need [outcomes])
- Requirements ([technical component] shall [outcome])
- Question (Does/Is it [outcome as question where answering yes passes])
- Technical statement passive voice ([technical component] is [outcome])
- Technical statement active voice ([technical component] [verb] [outcome])
- Optional Other (Any other format you'd like to try)

Safe from Audio Shifting

Original: Audio shifting designed to create a perception of motion is under user-control. (scratchpad)

- User statement (Users with/who [list highest level disabilities supported], can [outcome]
- Needs statement (I need [outcomes])
- Requirements ([technical component] shall [outcome])
- Question (Does/Is it [outcome as question where answering yes passes])
- Technical statement passive voice ([technical component] is [outcome])
- Technical statement active voice ([technical component] [verb] [outcome])
- Optional Other (Any other format you'd like to try)