

# Preference Editor Interface Features and Discovery Opportunities (April 2)

## Interface Features

### Presentation Methods

- staged trail menu
  - linear task-by-task
  - decisions made in initial steps effect questions/features presented in following steps
  - can navigate backward at any point, but forward only one step
- basic->advanced features
  - hierarchical sections
  - larger sections with core features can be accessed initially
  - more advanced features can be accessed from larger sections

### Potential Features

- **preference sorting**
  - categories (curated groupings)
    - functional
    - need-based
  - search
  - tag database (visualization of all the tags)
  - user activated, favourited
  - recommendations
    - based on activated preferences
    - based on behavioural & contextual awareness
      - captions have been activated on several videos, captions always on automatically activated
      - less time is spent on text-only content, preference to highlight visual-rich content is suggested
      - keyboard is sometimes used navigate through content, use of advanced keyboard shortcuts is suggested
      - pattern of certain preferences activated under specific contexts (time /location), preferences are automatically activated next time with option to create a new preference set
  - recently searched
  - recently used
    - preference history?
  - most common, popular
- **preference/content request**
  - search results
    - no results > search term is automatically sent as a missing preference
    - results, but no modification is made > search term is automatically sent as potentially missing preference
  - preference request
    - user submits request form with explanation of needed preference/customization
  - content accessed
    - content does not fit user preferences > request is automatically sent for missing alternatives
    - user says the content isn't working > user identifies what is missing by themselves or through a discovery tool and sends request or changes preferences to transform content to better fit their needs
- **prompts/tips**
  - progress bar indicating steps to-do
  - check-ins with recommendations
  - alerts for new features
  - directions after period of inactivity
- **labels**
  - familiar visuals, wording, etc. (e.g., CC for captions)
  - rich tool-tips (more detailed description, preference preview)
- **instructions**
  - text, video, audio directions
  - interactive with adjusters
  - overlay on interactive interface (i.e. preference editor)
- **games/tests**
  - *(short)* series of activities to evaluate user's preferred content type and content that needs alternatives
  - *(long)* compare user's performance on different resource types to determine needs

- **preview** (live/mock) *discovery through activating preferences and experiencing result*
- **sharing/receiving/syncing** preference sets *discovery through others*

## Preference Sorting

[>> Download Preference Sorting Diagram](#)

### Alternatives & Enhancements for:

#### visuals

- enhancements (size, contrast, style, organization, etc.)
- alternatives (text-to-speech, described video/image, braille, etc.)

#### audio

- enhancements (speed, volume, filter, etc.)
- alternatives (captions, sign language, vibrating alerts, etc.)

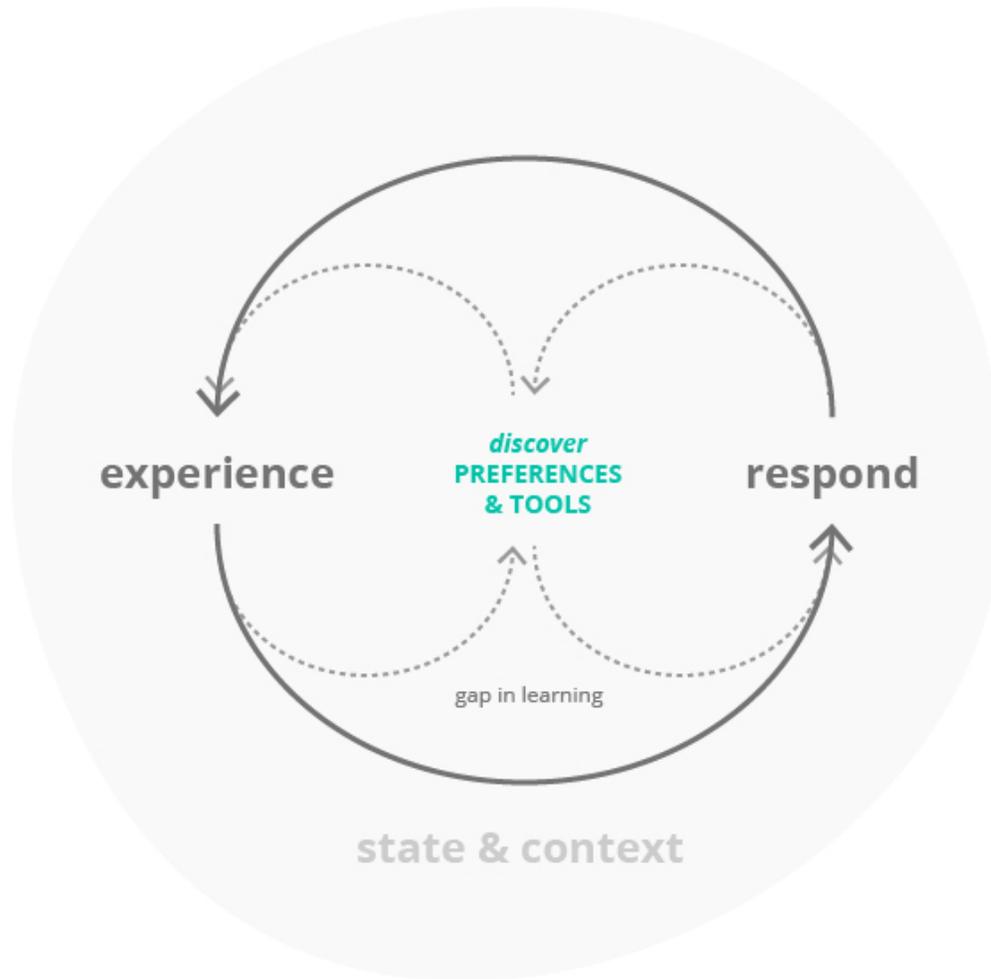
#### interaction

- enhancements (time limits, pressure sensitivity, required force, etc.)
- alternatives (voice commands, key controlled pointer, gesture navigation)

#### understanding

- content/language alternatives -> see alternatives for visuals, audio, interaction (preference for visual/tactile/audio content, translated content, described cultural references, etc.)
- processing enhancements -> see enhancements for visuals, audio, interaction (content organization, audio filters, time limits, etc.)
- learning tools (annotators, reminders/organizers, language aids, etc.)

## Preference Discovery Opportunities in Learning



## Experience

### Methods

- delivery
  - individually
  - one-on-one
  - lecture
- content
  - text
  - video
  - audio
- form
  - static
  - interactive
  - tangible
  - observation/demonstration

## Discover Preferences

*see alternatives & enhancements for audio, visual, interaction*

## Respond

### Methods

- restate/synthesis or translate/reinterpret (remix) through:
  - text
  - visual
  - audio
  - video
- discuss (*experiencing + responding?*)
- apply/perform task
- review/evaluate experience
- testing/assessment of:
  - understanding
  - retention

## Discover Tools

*process of using tools becomes an interactive experience?*

- annotations/bookmarking
  - comments, blogs, messages
  - sharing links
  - audio, video clips
- reminders (could be attached to annotations?)
  - alerts
  - to-do
- language
  - check spelling & grammar
  - word prediction, abbrev. expansion
- *more to be included*

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