



Learning Styles based Checklist for Instructional Material Features in E-learning





Aim of the Research



Determining the gratified learner characteristic from the features in an e-learning environment.

Learning Styles

- Learners have different preferences, styles and characteristics in processing information.
- Over the years there are several learning style models proposed to categorize the preferred way of learning by variety of learners.



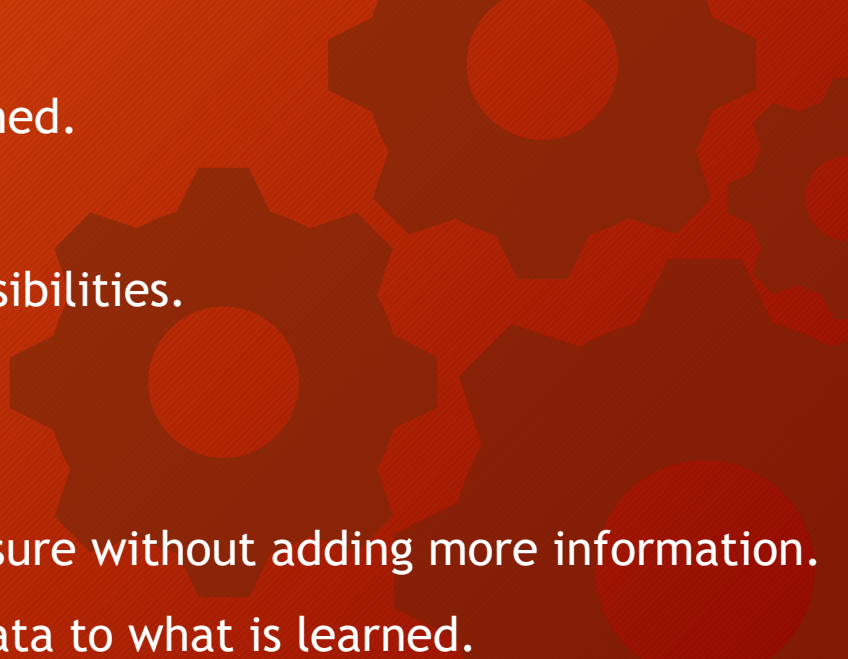
Learning Styles

1. Myers-Briggs Type Indicator
2. Kolb's Learning Style Model
3. Herrmann Brain Dominance Instrument
4. Felder-Silverman Learning Style Model
5. Honey Mumford Learning Style Model
6. 4MAT's Learning Styles
7. VARK Learning Style Model



Learning Styles - Learner Characteristics

Myers-Briggs Type Indicator

- Extravert: Learns by trying out and cooperative learning.
 - Introvert: Learns by thinking and individually applying what is learned.
 - Sensor: Learns by focusing on procedures and facts.
 - Intuitive: Learns by imagining and thinking of the meaning and possibilities.
 - Thinker: Learns by considering about the facts, rules and logic.
 - Feeler: Learns by considering humanistic and personal aspects.
 - Judger: Learns by following an agenda or a plan and try to find closure without adding more information.
 - Perceiver: Learns by adapting to changes and trying to add more data to what is learned.
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Learning Styles - Learner Characteristics

Felder-Silverman Learning Style Model

- Active: Learns by hands-on experience.
- Reflective: Learns by thinking and understanding.
- Sensing: Learns through clear facts and details. Prefers to follow a well-known procedure.
- Intuitive: Learns through abstract information and try to discover new possibilities.
- Visual: Prefers to learn using visual presentations such as pictures, graphs, animations etc.
- Verbal: Prefers to learn by listening and reading.
- Sequential: Learns step by step in an organized environment.
- Global: Prefers to learn randomly in a creative manner.

Unique Learner Characteristics

A list of unique learner characteristics discussed all seven learner style categorization models.



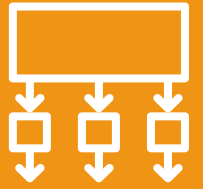
Features in an E-learning Environment

A list different features in an e-learning environment which gratifies the identified learner characteristics.



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What are the next steps?



- Validate the checklist.
- Identify more features in different types of learning environments and improve the checklist.
- Implement an automated tool to derive the level of target learner gratification from the features in an online learning environment.