

Parallel Session 3

A-10

Cross-mode Communication: Theory and Experiment

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Abstract

One problem in communication design is the lack of operational approaches to the relationships between communication goals and the anatomies of communications themselves. This failure leaves the design process itself inaccessible. Designers are left to speculate about the meaning and results of their strategies. This paper describes a cognitive process approach to bridge the gap. It presents experiments using cross-mode cognition to study variables affecting comprehension, interpretation, and memorability. Experiments address problems of subject self-reports, providing a robust, repeatable, in situ method to explore many different design questions and extend empirically based theory.

Keywords

Attribution, Cognition, Mode, Interpretation

A-11

A Characteristics and Designing method of Dynamic Documentation

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Abstract

This paper describes the dynamic documentation uses 3D (Three Dimensional) virtual space. Various elements such as text, images, movies and sounds can be put on the 3D space as a movable element. In the 3D virtual space, we can manage the contents as informational objects. Position and distance represents the relation of each element. Changing position or distance means arranging the structure of contents. In this study, we classified the method of dynamic documentation from three viewpoints.

- 1) Where the documents are placed.
- 2) How to relate the document to the other objects.
- 3) How to allot each element of message to the restricted document space.

We observed the user's behavior through basic image models about 3D documentation based on these three viewpoints. As a result, we found characteristics listed below.

- There are three places for pasting documents.
(1) Surface of the object, (2) ground of virtual space, (3) window frame or layer.
- There are five methods of visualization about relation between object and document.
(1) Connect with line, (2) overlap, (3) pop up, (4) layout, (5) hyperlink or cutwork.
- There are three points to be considered while expressing the document. Volume of document, (2) unit of message, (3) how to connect each unit.

Keywords

documentation, cyberspace, dynamic, 3D, graphics, typography,