

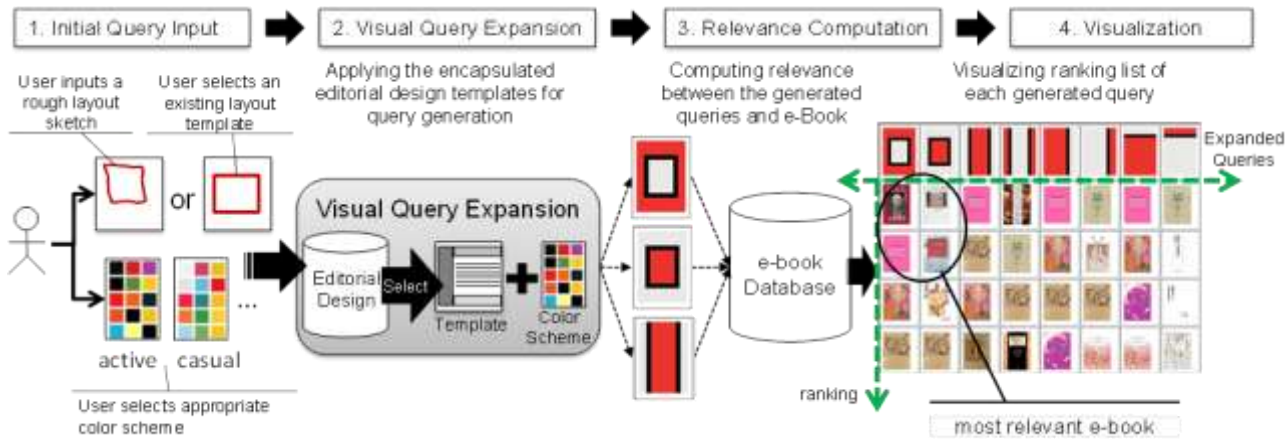
# エディトリアル・デザインに関するテンプレートを用いた クエリ入力支援機能を有するe-Books検索エンジン

## Query-by-Appearance: Visual Query Expansion to Support Domain-Specific Retrieval of e-Books



### Overview

We develop a visual query expansion mechanism called Query-by-Appearance, which utilizes techniques developed in the field of Editorial Design.



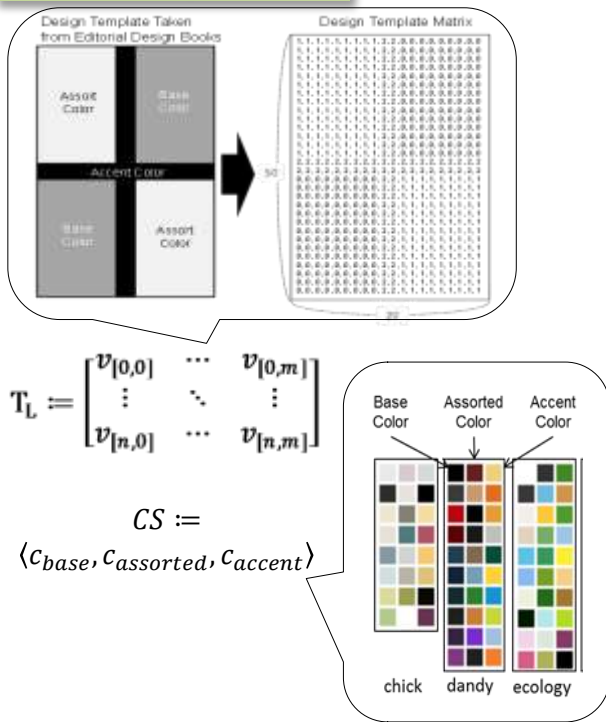
### Editorial Design

Editorial design is a methodology for enriching and beautifying books and magazines by configuring their overall appearance, particularly the visual layout of photographs and illustrations. techniques provide a sophisticated way of constructing and laying out visual compositions. Our system utilizes editorial design methods in its query templates.

### Five steps to retrieve e-book

1. The user inputs a rough layout sketch on the HTML5 Canvas system.
2. The system converts the rough layout query input into a matrix.
3. The system generates colored templates by adding color to the selected. The sets of colored templates are automatically expanded to image matrices that include the layout structure and the color scheme.
4. The system calculates the similarity between the expanded query matrices and e-book image data stored in an e-book database
5. E-book cover images that contain similar editorial design characteristics are.

### Editorial design templates



### Two-dimensional ranking retrieval



Our visualization mechanisms allow users to retrieve the desired e-book according to similarities in layout and color scheme.

### applications

amazon.co.jp

Applicable to retrieve logs from Amazon.

Applicable to retrieve inside layout of books and magazines by installing this system.

