

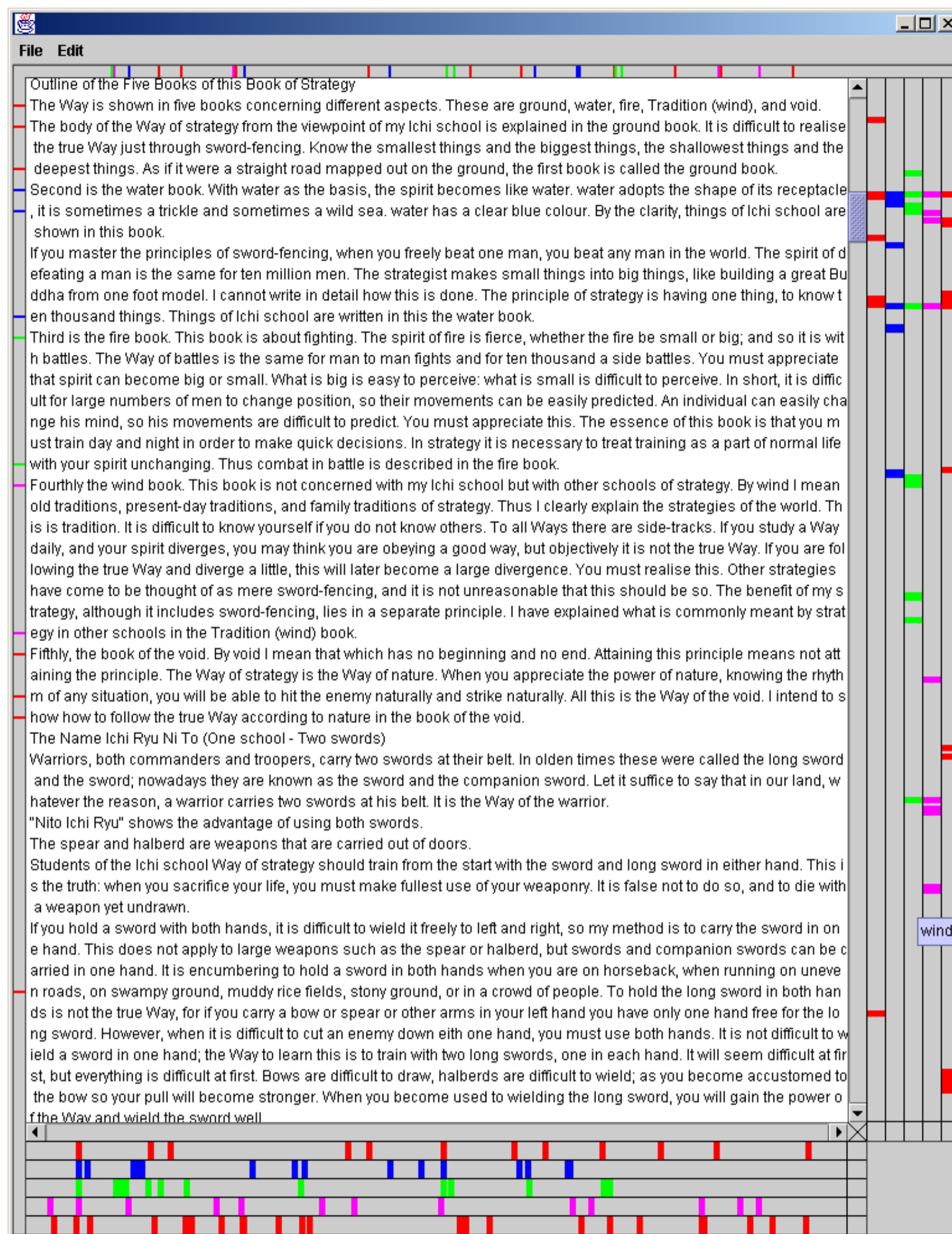
# The ScrollSearcher Technique

## Using Scrollbars to Explore Search Results

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The book of 5 rings. Searches for ground, water, fire, wind and void have been performed using the ScrollSearcher technique.

## Example use

## The ScrollSearcher Idea

Provide users with overview of search results and make navigation easier between different hits in the search.

## Background

Search functions in applications useful but:

- Document jumps abruptly between hits
- Hits can only be explored sequentially
- Difficult to see correlations between hits
- Difficult to see correlations between searches

Scrollbars feasible to enhance with search functionality:

- Common components in GUIs
- Show positions in documents
- Allows quick navigation within the document

## The ScrollSearcher Technique

Initially looks like a normal scrollbar:

- A *result bar* is shown next to the scrollbar after each search
- Result bars show hits using the scrollbar's frame-of-reference
- Moving to a hit is done by aligning the scroller to the hit
- Pop-up views (tool tips) help users identify result bars

Left and top border around the visible text indicates currently visible hits.

The ScrollSearcher presentation makes it possible to identify:

- Groups of hits
- Isolated hits
- Hits located in regions such as the beginning or the end
- Absences of hits
- Correlations between different searches
- Sequences between hits in different searches

## Related Work

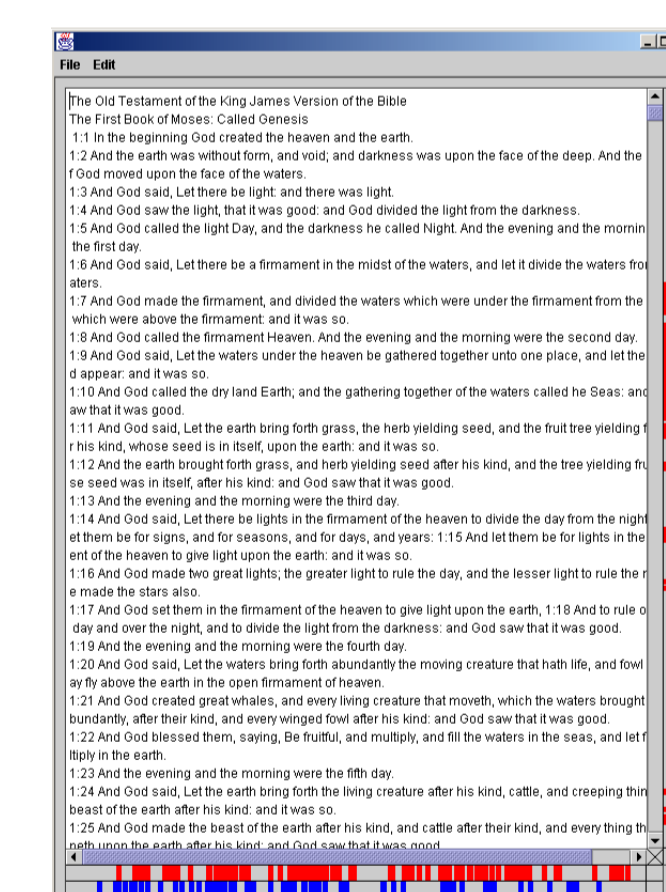
- Value Bars (Chimera 1992)
- "Search and Replace" widget (Beaudouin-Lafon 2000)
- Categorical Slider (SeeSoft, Eick et al., 1992)
- "Generalized Sliders" (Eick 1994)



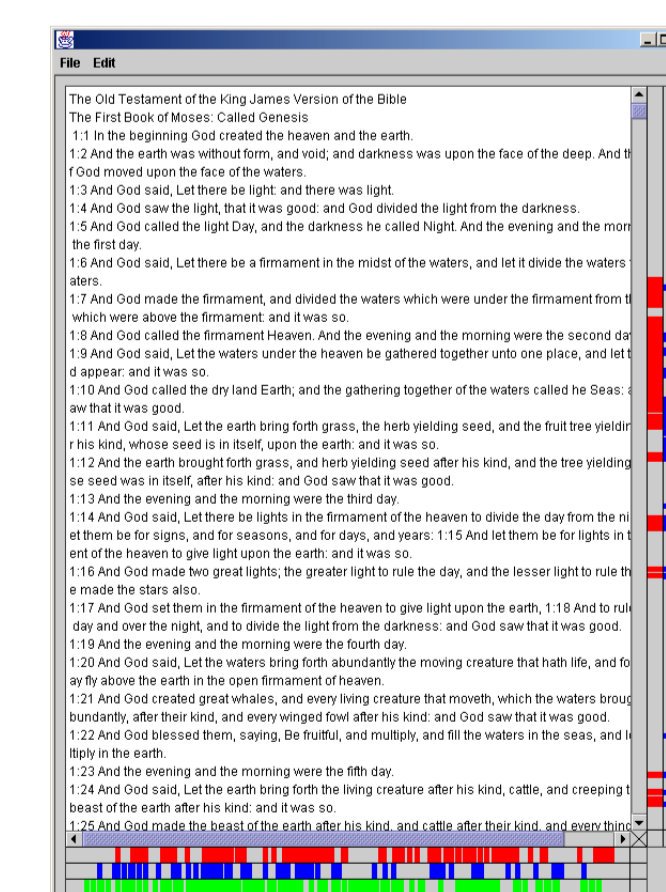
Initial Appearance.  
(Book of Genesis, King James' Bible)



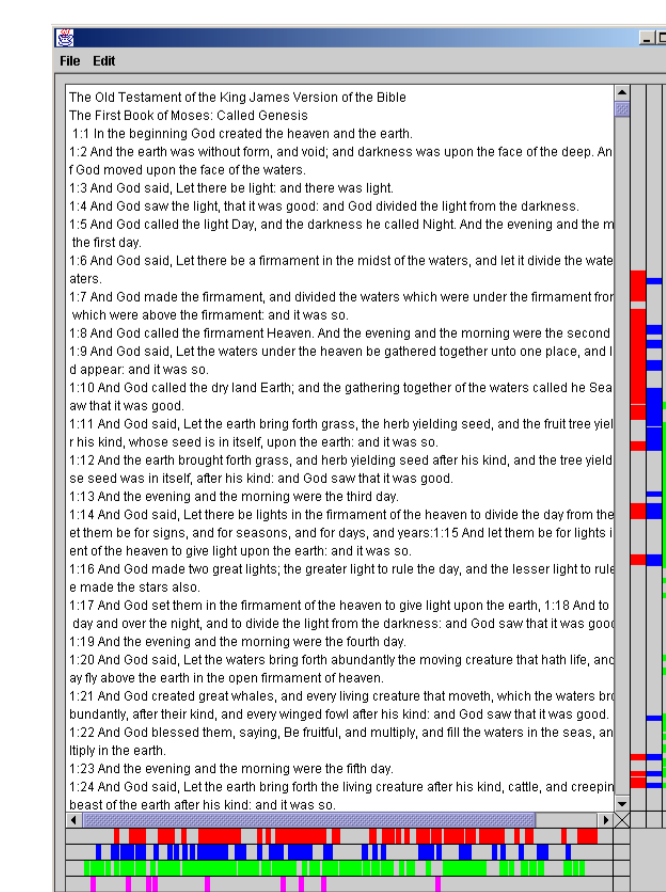
After search for Abraham.



After additional search for Isaac.



After additional search for Jacob.



After additional search for angel.