
Documenting Subjective Interpretations of Illustrated Book Covers for Lewis Carroll's *Alice's Adventures in Wonderland*

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Abstract

In the Implementing New Knowledge Environments (INKE) project, our primary focus has been on text. In this article, we discuss our recent innovations in finding ways to capture the subjective interpretation of visual information that is in some way connected with texts. Previous work has focused on text-based semantic differentials, but our current project extends beyond to triads, and beyond text-based difference poles to image-based difference poles. As our case study, we apply the method to illustrated book covers for Lewis Carroll's *Alice's Adventures in Wonderland*.

Keywords

INKE; Repertory grid; Visualization; Visual documentation; Lewis Carroll; *Alice's Adventures in Wonderland*

Introduction

It is fairly straightforward to hear someone's opinions about a book cover, about the ways in which it reflects or fails to reflect the contents of the book. However, it is less simple to devise a means of documenting those impressions in a systematic way – one that does not disregard the subjective basis for them but in fact attempts to delve deeper into that subjectivity. If such a method were developed, it might be possible to use it as a new kind of qualitative research tool that could be specifically focused on readers and their intellectual and emotional responses to visual elements in the books they read.

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Literature review

Our work builds on the repertory grid methodology for data collection developed by American psychologist George Kelly (1955a, 1955b). He was primarily interested in the theory of personal constructs. That is, he proposed that assembling clusters of categories was one fundamental way in which people constructed an understanding of their world throughout their lives. A person would typically hold many such constructs, some of which were more important than others; they might also be mutually contradictory. The constructs develop and change over time. One of their defining characteristics is that they provide a degree of mental control to people; constructs help people to predict what is going to happen next. They are also often expressed in terms of binaries: the thing and its defining other, or what is in and what is out of a particular category. Finally, these binary expressions are subjectively developed and defined.

For Kelly, it was therefore important in studying people to be able to document this personal language of constructs for each individual. The repertory grid is a system that attempts to produce this kind of documentation through a series of steps that progressively narrow the person's focus – beginning with choosing what is interesting, and ending with how it might be described as interesting in terms of its location on a set of personal difference poles. What the repertory grid method captures is therefore highly subjective, by intention. It is not a system of standardized questions that allow for ready comparison of answers. It is instead intended to get deeper into the way that individual people understand and describe their focus of attention, and the more closely they are able to define the binaries that represent their clusters, the more successful the study has been.

Kelly focused, however, on language as a means of communicating about personal constructs. Visual material can also be used in this way. In a previous phase of our research, Michura and Radzikowska (2013) applied Kelly's approach to the subjective understanding of visual material. In a study of how people interpret Web pages, they collected user-defined semantic differential scales, as an experimental method for helping researchers understand the terms that people use in interpreting visual information and the "iconic" pieces of images that serve as evidence for the use of those terms. The current project reports the next phase of this research trajectory.

Alice's Adventures in Wonderland

In this phase, we decided to look at a literary classic from a somewhat unusual perspective: namely, can we interpret the images on dust jackets or book covers (or more technically, the upper boards) as indications of the character of Alice in the book? Dr. Rose Lovell-Smith (2003) carries out a similar program of interpretation of the animals in the original illustrations by John Tenniel. She proposes that he has drawn on the conventions of natural history diagrams, and in particular suggests that they instantiate Darwin's version of natural history, which was new at the time, in which natural selection plays an important role.

Method

In our case, we were interested in exploring the application of our prototype system to this kind of work. In our prototype system, the interpreter develops a set of focal points

of discussion, then applies them to a set of book covers from which small snippets of image are cut in order to help produce a map of evidence for understanding the perspectives suggested by the various illustrators. Rather than working individually, two of us worked together, adding a further layer of complexity to the interpretive process. In an ideal case, several interpreters would work independently, so that the results could be used for discussion and possible synthesis into collaborative insights.

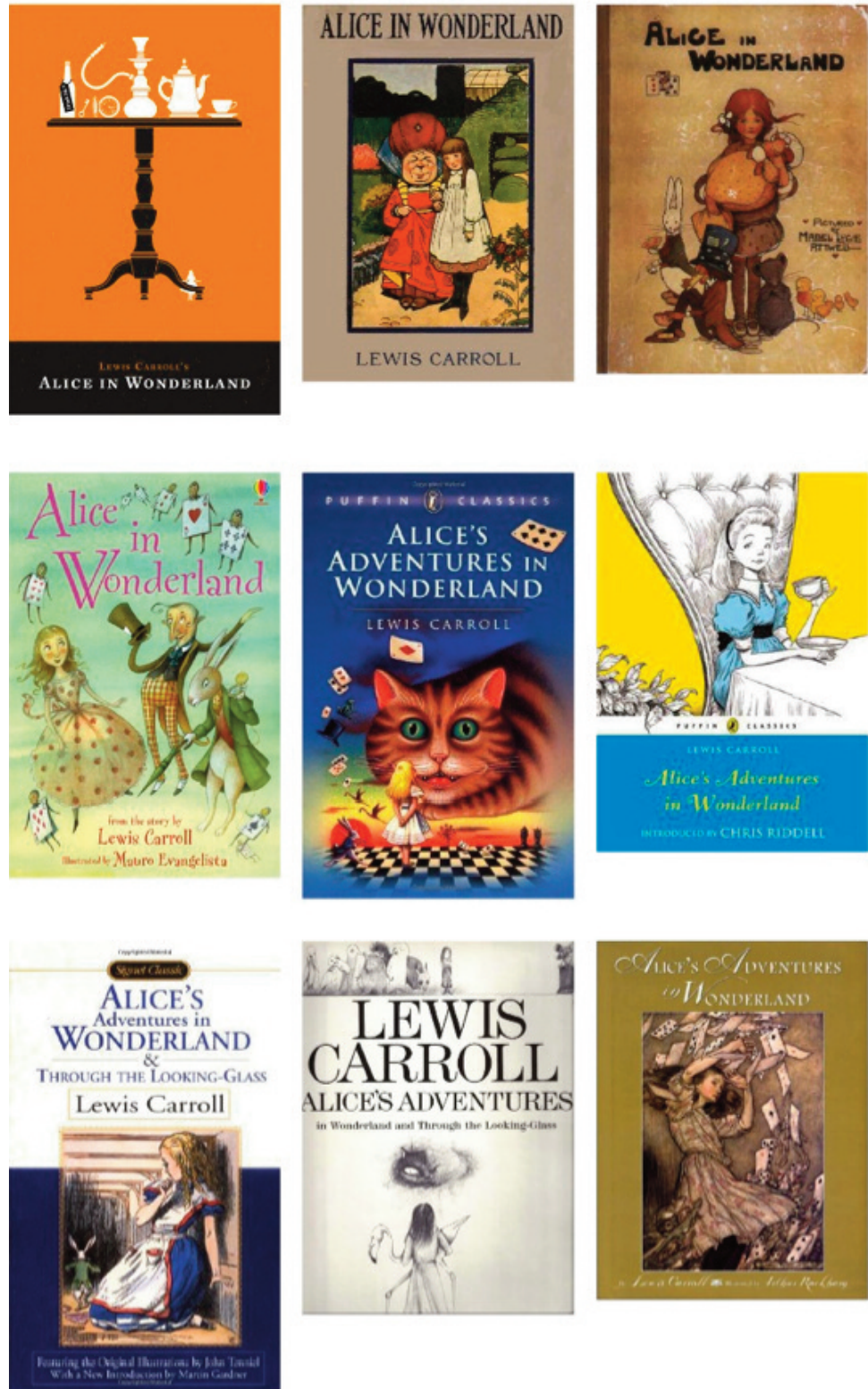
We began with a set of 28 different books covers (see Figure 1). They varied quite widely in terms of illustrations, colour, use of typography, and so on. Some of them were clearly accommodating a series style, while others were suggestive of the period when they had been created.

Figure 1: The original 28 book covers of *Alice's Adventures in Wonderland*.



After careful consideration, we chose nine of the images (see Figure 2) as a set that we felt had something significant to suggest in terms of an attempt to make an interpretation of the character of Alice.

Figure 2: Our selection of nine book covers for visual interpretation.



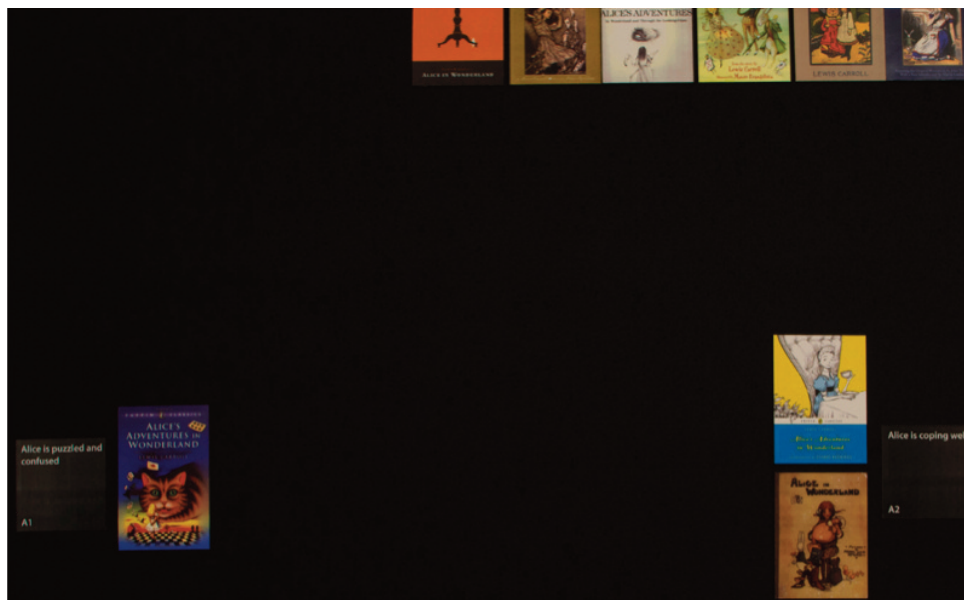
We were not able to identify all of the illustrators responsible for the images used on these covers. However, they did include (listed alphabetically by last name):

- Mabel Lucie Attwell
- Mauro Evangelista
- Arthur Rackham
- Chris Riddell
- John Tenniel

In some cases, we set covers aside because they had no image of Alice, who was the basis of our research question. While it may be possible to interpret images without Alice as suggesting something about her character in the story, we felt that the existence of a sufficient number of covers that did have an image of Alice provided us with firmer footing for the purposes of an initial pilot. Some of the other covers we chose not to analyze contained photos rather than illustrations. While photos can be subjected to the same process, we decided not to complicate our interpretative process in this case by mixing media.

The next step involved the generation of our encoding scheme. We took combinations of the book covers into sets of three, and then identified for each set of three the ways in which two of them might be grouped together in comparison with the other. The result was a set of pairs of grouping criteria, where one half of each pair was represented by two images, and the other half of the pair by one image (see Figure 3). For example, two images might be darker in tone and the other lighter. In fact, remembering that the goal is to maximize opportunities for communicating personal constructs, we resisted the impulse to create simple descriptive criteria such as “light” and “dark.” We instead focused on more personally interpretive statements, such as “dark implying danger” and “light suggesting cheerfulness.”

Figure 3: Sets of three images were used to establish personally interpretive grouping criteria – in this case: “Alice is puzzled and confused” and “Alice is coping well.” The six covers along the top will also eventually be rated according to these criteria.



Combining the book covers into unique sets of three gave us a dozen pairs of grouping statements, which we then systematically applied to all of the other covers. We then rated the strength of their association with the statement on a scale of 1–5, where 1 suggested no connection and 5 a strong connection. However, as each choice was made, we did not use the entire cover as the focus of attention, but instead clipped out some portion of the image that we felt best represented the association we were identifying.

The purpose of this was twofold: to help us understand in visual terms what we were using as the basis for our interpretation, as well as to communicate our thinking more clearly to people looking at our results. With those criteria in mind, we decided not to decontextualize each clipping by removing it from the cover so that someone reviewing the board would have to figure out where it had originated. Instead, we darkened everything except the selected area, so that the brightened portion indicated our focus of interpretation.

The result was a large repertory grid of visual examples, which were keyed to interpretive criteria that we had defined (see Figure 4). In some respects, this was a reasonable place to complete the exercise, since at this point we had documented the process of selection, the development of personal evaluation criteria, the application of those criteria to a set of visual materials, and the selection of iconic visual elements as evidence for the assertions we were making.

Figure 4: A close-up of part of the repertory grid of visual materials evaluated according to personal interpretive criteria. Across the top is the set of covers for reference; each subsequent row shows the same covers rated according to the criteria to the right and left of the row. Note that the relevant portions of each cover are highlighted.



With this phase completed, we found that understanding the grid was complicated by the fact that the numeric ratings were not associated visually with the relevant interpretive criteria. We therefore re-organized the material, inserting the covers on a line between the criteria (see Figure 5).

Figure 5: A set of interpretive criteria with other covers located on a line between them, based on their ratings.

The original covers used to establish the criteria are shown on the left and right.

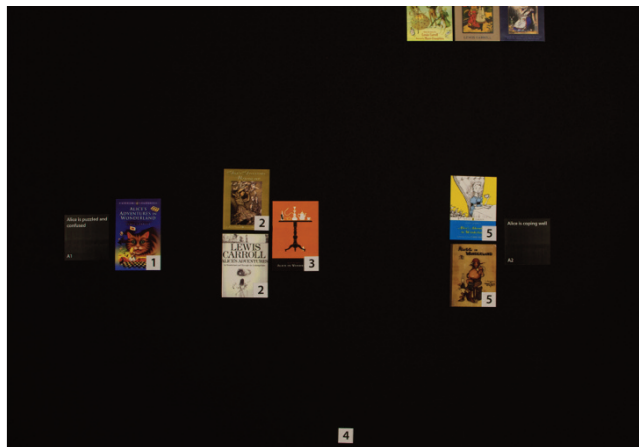


Figure 6: The visual materials arranged within triads of interpretive criteria.



However, we were interested in extending the system further. Our first strategy was to complicate the impulse to consider the interpretive criteria as difference poles, and instead arrange the three originating book covers as triads. The advantage of using three points is that they can define a space rather than just a line, allowing us a more nuanced way to assign our visual examples to a relative position (see Figure 6). Using this approach, the text anchors stay the same, but the two book covers on the one side are separated into two visual points.

In the example shown in Figure 6, we have “Alice is puzzled and confused” with its representative cover on the left, and “Alice is coping well” with its two representative covers on the right, only separated this time to make a triangular space between the three covers. Pieces of the other covers are then placed appropriately within the defined space. The numbers across the bottom represent the ratings given to the pieces earlier, when we were using a line rather than a space.

Results

Based on the nine selected covers, we used the procedure involving sets of three covers to develop the following sets of interpretive criteria:

- A1 Alice is puzzled and confused
- A2 Alice is coping well
- B1 Alice is solitary
- B2 Alice is in a group
- C1 Setting conveys story features

- C2 Setting does not contribute to the story
- D1 Alice is in a calm situation
- D2 Alice is in a chaotic situation
- E1 Alice is showing leadership
- E2 Alice is behaving as a follower
- F1 Alice is watching
- F2 Alice is involved
- G1 Alice is older and tougher
- G2 Alice is younger and more vulnerable
- H1 Alice is in a meaningful situation
- H2 Alice is in an absurd situation
- I1 Alice's eyes are turned toward a reader
- I2 Alice's eyes are turned away from a reader
- J1 Dark tones suggest danger
- J2 Light tones imply fun
- K1 Alice is not central to the scene
- K2 Alice is central to the scene
- L1 Lack of prospect view; closed environment
- L2 Rich prospect view; open environment

Although defined as binary pairs, it is not really accurate to discuss them as difference poles, but rather as distinguishing characteristics.

Analysis

It might be fair to describe our interpretive stance as feminist. We found ourselves increasingly interested in the extent to which the artist had depicted Alice as agential rather than passive. This stance led to a cluster of related questions: How old is she? How much attention is she paying? To what extent is her environment friendly or threatening, and how does she appear to be responding to that environment?

To further understand what our interpretive criteria were suggesting, we used an online system designed for repertory grid analysis (WebGrid, 2000). Unfortunately, it was created some time ago and appears to be currently unsupported, so the link is not entirely reliable. It also works only with text, so we could upload the text snippets that comprised our interpretive criteria, and we invented names for the book covers, but we were not able to associate the text automatically with the various images.

However, the system did produce a cluster analysis based on the ratings we provided for the various criteria for each cover (see Figure 7). Some of the closest connections among the criteria were:

- Alice is in a group: Alice is in a meaningful situation
- Alice is coping well: Alice is showing leadership
- Alice is involved: Alice is older and tougher
- Lack of prospect view: Setting does not contribute to story features

From our perspective, these associations all seemed reasonable – although it is equally true to say that they were surprising. We would not normally say that meaningful

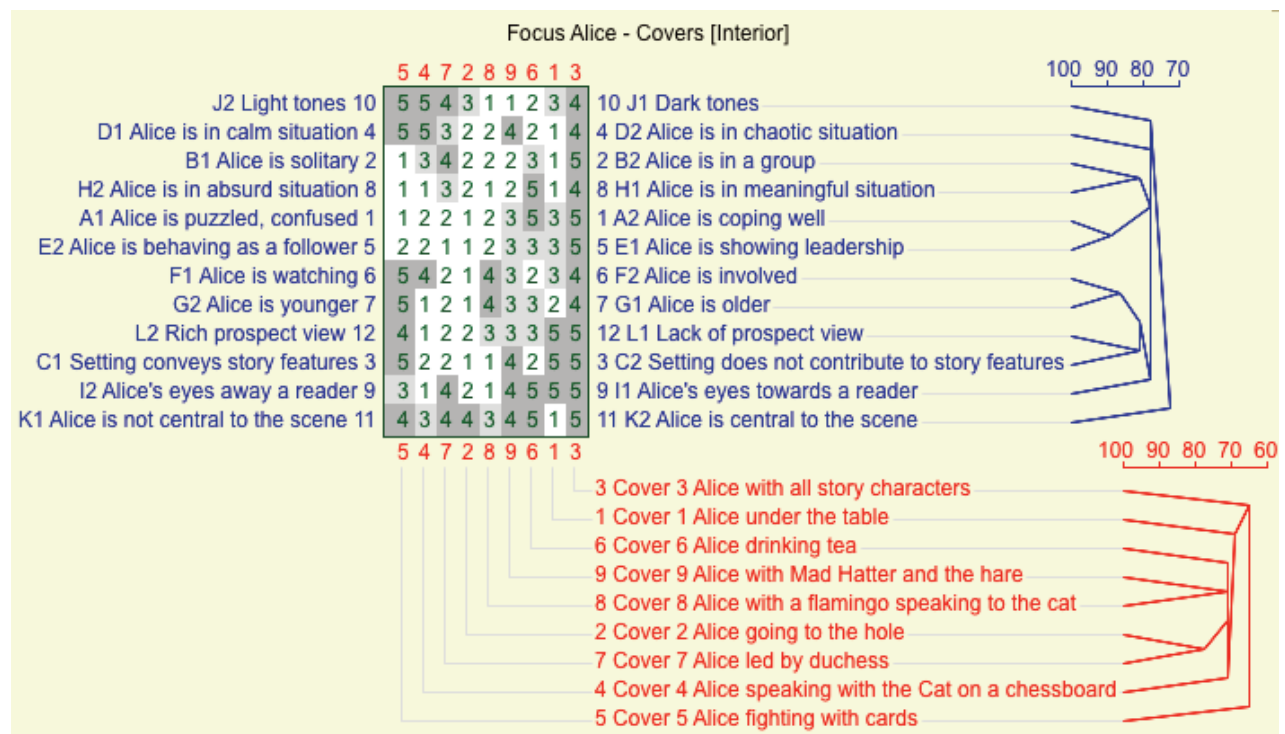
situations imply groups, that leadership is a form of coping well, or that a neutral setting suggests a lack of prospect. The only unsurprising item on this list is that “older and tougher” clusters with “more involved.”

Some of the covers that clustered most closely together were:

- Alice with the Mad Hatter and March Hare: Alice with a flamingo speaking to the Cheshire Cat
- Alice going to the rabbit hole: Alice led by the Duchess

As with the clusters of interpretive criteria, the clustering of these pairs of covers using the ratings based on the criteria has surface validity in a number of ways. In the first pair, Alice is somewhat passive – indeed, in the first of the pair, she seems somewhat “out of it,” standing at a distance and rolling her eyes away from the other two characters. In the second pair, she is in each case with one other character and the situation is foreboding.

Figure 7: A cluster analysis of the interpretive criteria and the book covers.

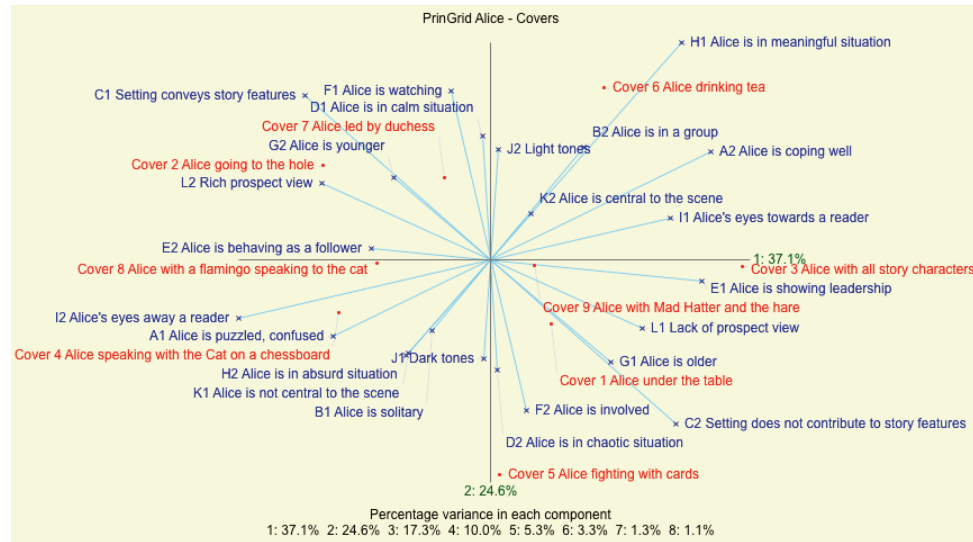


In addition to the cluster analysis, WebGrid allowed us to carry out a principal component analysis (see Figure 8). One of the interesting outcomes of this process is that the cover depicting Alice drinking tea is in a location of its own. In fact, this illustration is remarkable in that it suggests more than any other that Alice is in control and that she is, in fact, based on the direction and nature of her gaze, feeling somewhat cheeky. This Alice is self-aware, and her adventures are a game that she is enjoying.

Having documented and analyzed our perspective on the covers, we are now in a position to do two things. First is that we have developed some interpretive

understanding to guide us in creating new illustrations for a book cover of *Alice's Adventures in Wonderland*. For example, we might choose to increase the sense of danger, which we could do by making her younger, passive and confused, and in a dark environment that communicates a threatening moment in the story.

Figure 8: A principal component analysis associating the cover names with their interpretive ratings.



Second is that we were able to subsequently review additional covers, explicitly using the emergent presuppositions of our interpretive stance, in order to find out how it extends beyond our initial set of nine. To try out this approach, we found two covers that were more extreme in some respect than the ones we had previously examined.

Figure 9 is an example of a young Alice who seems to be in quite friendly circumstances. Although her March Hare is large enough to be potentially intimidating, his threat is mitigated by his softness and roundness. He is much more the stuffed rabbit than the March Hare, who is so named because he has been driven to frenzy by his spring hormonal surge.

Figure 9: A very young Alice with a large friendly rabbit.

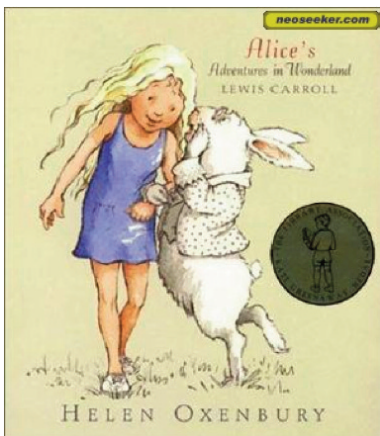


Figure 10: An older Alice falls into darkness.



Contrast Figure 9 with Figure 10, where Alice appears to be almost an adult. Her situation, however, is much more alarming, since she is in freefall. The difference between the two illustrations is most striking in the contrast between them. The young Alice is learning a secret from a friend. Everything about the illustration suggests that she is confident and happy, from the expression on her face to the tone of the colours to the fact the rabbit is up on one foot to whisper to her. Even the minimal environment suggests no alarm, since they are standing on grass.

The older Alice, on the other hand, is alone, and not just off balance, but actually falling backwards, through a dark library, into greater darkness. She is unnaturally lit against the dark background, as though illuminated by a light source that is not visible to the viewer. She is more formally dressed than her younger self, with shiny shoes and a ribbon controlling her hair, making the position she is in all the more disturbing. In addition, the proportions of her body, the position of her body, and the fact that she could be construed as wearing lipstick and rouge, are all at least potentially sexually suggestive, and if so, what they suggest is sexual vulnerability.

What these covers do is, in a sense, reverse our interpretive expectations about age and agency. Typically, according to our interpretation, the older Alice should be more confident, tougher, and in control, while the younger Alice should be more vulnerable and less agential. Instead, we see in this pair the opposite of those presuppositions.

Conclusion

We have created an extension of the repertory grid method that is intended to document the subjective interpretation of images, using first the personal language that the interpreter develops in viewing the material, then the visual material itself as evidence. Our final idea was to supplement the textual interpretive criteria with visual material, so that the rating of other covers would be in the context of a sample iconic visual element for each of the criteria. The advantage of this approach is that it removed, in some respects, the reliance on text-based constructs, although the text was also present. To delete the text entirely is possible, but the richness of personal expression would be to some extent unnecessarily diminished. We can envision, however, that it might be useful with people who are not literate in English, who could nonetheless carry out the image-based positioning exercise.

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