From a click to a gesture: a contribution to defining the concept of children’s e-picturebooks

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Abstract

This communication aims to define the concept of children’s e-picturebooks. There should be a reflection on this subject and on the place that e-picturebook occupies or may occupy, in the children’s reading’s field. Will be the focus of attention: a) generic characteristics of picturebooks; b) the specificities of e-picturebooks; c) the value that applied media, with its intrinsic qualities, assumes in e-picturebooks, together with the identification of some possibilities for the future’s development of research on these artefacts, taking into account the increasing value of digital media, as mediators of multimodal narratives, aimed at children.

Keywords

e-picturebook, narrative, children’s digital artefacts, children’s literature, technologies

The children’s picturebooks

In mid-eighteenth century, two editors/booksellers from London – Thomas Boreman and John Newberry (Escarpet, 1996) – published the first illustrated children’s books, to “instruct and entertain”. Those books, in which narrative is an image and text combination, are the ancestors of contemporary picturebooks.

Throughout years the picturebooks suffered changes in design, in their material characteristics and in relationships between images and texts.

The early definitions of picturebooks were based on identification of its narrative and physical components. In the late twentieth century and first decade of this century, the emphasis shifted to the semantic relationships, decoding and interpretation of picturebook visual and verbal texts. Barbara Kiefer (2008) summarizes the approaches to the concept throughout the twentieth century as “artefact of culture that contained visual images and often words”; she even points out the printed paper, the hardcover bookbinding, the 32 pages, as materials characteristics. In conclusion she said that, during this period “the picturebook was created for the enjoyment of an audience of young children with the object of engaging them in pleasurable experiences.”

If we consider only this approach to define picturebooks, we can hardly establish their specificity, since all books for children, use images and text or only images, to communicate.

Nikolajeva (2002) points out that the specificity of picturebooks “derives from the combination of two levels of communication, the verbal and the visual” asserting that “the picturebooks are a synthetic medium (...) the overall meaning is assembled by the receiver in the interaction between the different communicative means”. Likewise, Wolfenbarger and Sipe (2007) state that “a new entity is revealed that is more than the sum of its parts”.

In 2012 Sipe “revisits” some relationships between image and text in the picturebooks and supports that the essential premise for all addressed perspectives is “a picturebook can only
be fully understood when readers/viewers understand the intricate and dynamic relationships between the sign system of the visual images and the sign system of the words” (2012), assigning to reader/child and/or the mediators a key role in decoding. Understanding the codes allows the receiver to decode the plot, uncover meanings, identify signs and symbols presented and unveil the creation contexts of narratives from picturebooks, in accordance with Nikolajeva (2010).

Anstey (2008) points out intentional mechanisms used by authors and/or illustrators that are related with classification of picturebooks as postmodernist objects: non-traditional forms of dealing with the narrative; unusual use of narrator’s voice; style’s mixture; unusual formats; intertextuality; enhancement of multiple readings and meanings, for different audiences. The rise and evolution of digital media has brought us, nowadays, new ways to communicate: communication is increasingly built up by the aggregation of various media.

Terje Hillesund (2010) emphasizes that contemporary reading is often done in “interactive digital environments (...) that combines images, videos and music”, i.e., contemporary reading is not only done in printed media, the digital texts are mainly multimodal and their reading requires interaction and navigation (Mangen, 2008). The new books had emerged with various media and different characteristics, changing the reading experience.

Kress (2000) holds that “an adequate theory for contemporary multimodal textual forms, needs to be formulated so as to permit the description both of the specific characteristics of a particular mode and of its more general semiotic properties(...)”.

**Digital interactive books for children**

**ebook definition**

Chrstyal (2009) define e-book as “an electronic or digital representation of a given text, whether scanned, typed, or programmed, having virtual “pages”, that are read using e-book reading software, either on a personal computer, a PDA, a smart phone or on a dedicated e-book reading device”.

In 1971, Michael Hart, author of the project Gutenberg, created the first e-book (Chrstyal, 2009). For a long time this term was used for digital text with hypertextual interaction restrictions. The birth of specific devices for reading e-books and thereafter tablets (e.g. the Kindle and iPad) propelled the format’s evolution, the number of available titles and available genres.

Along with e-book, another reading digital formats combine in its terminology the “e” letter, for electronic (followed or not by an hyphen), with artefact’s traditional designation, such as e-pub and e-journal.

**e-picturebooks**

The first digital picturebooks were born in the late 1980’s. The publisher Brøderbund released a remarkable collection of picturebooks on CD-ROM to which belongs for example “Arthur’s Teacher Trouble” (Brøderbund, 1992). These digital narrative interactive books had no significant expansion, for over a decade. Nowadays, because of the format’s obsolescence and the software and hardware’s evolution, almost no CD-ROMs of this period can be read properly.

The digital picturebooks of this time period, whose diffusion is noteworthy, were the informative ones. The CD-ROMs from Dorling Kindersley, such as The way things work and I love Maths, had numerous translations worldwide, serving as a reference to many other CD-ROMs.

In the first half of 21st Century the CD-ROM ceased gradually to be used. The Internet has changed and its new features, along with best computer processors and more disk storage, allowed users to access a greater volume of information and receive animations, video and sound more efficiently. The contents available only on CD-ROMs, were now provided on the www, which allowed the development of portals dedicated to children, such as The Penguin Club from Disney and Cidade da Malta, with entertaining and informative features. During this time, it became common the digital implementation of printed books, to which were added
narration and simple linear inter- actions. This practice is still carried out and the catalivros.org site is a recent Portuguese example.

The creation of children's picturebooks specifically for the digital medium had no expression throughout most of this century's first decade.

At the end of the decade began the sale of tablets and smartphones, with access to audio, video, internet and new interaction abilities (multi-touch screens), enabling rich browsing experiences. The compact size, portability and good usability, introduced these devices in several informal children's spaces. In a very short period of time have been released, in many languages, hundreds of digital children's picturebooks. In Bologna, the Children's Book fair (since 1963), one of the leading world events to promote children's picturebooks, also known because of the Bologna Ragazzi Award, was marked in 2012 by the launch, for the first time, of the Digital Bologna Ragazzi Award.

The new picturebooks uses images, sounds and interactions; the whole text results from a combination of various media; the interaction with the screen allows progression on book's narratives and/or information; uses characteristic features of other media, such as cinema-plans, camera movements-and videogames-the books can have spaces/games related with the picturebook's theme.

At this expansion time we must find a new terminology to synthesize a name for these new interactive digital picturebooks for children. We propose, therefore, the designation of e-picturebook for these artefacts, establishing links with the original artefact, from which it inherits its main characteristics, whilst highlighting the digital medium through the use of prefix “e”. This approach considers a similar process used to naming other mediums, whose terminology, as we already noticed, was made in the same way.

We selected to examine the rationale of a new terminology, four titles from the iPad library, which represent four different approaches, identified in many other e-picturebooks (Table 1).

1. Adaptation of a printed book to a digital book (see figures 3 and 4)

Rocket Book (2011) by Peter Newell is an adaptation of a printed book (published in 1912) with the same name. A boy throws a rocket from the building basement, which crosses twenty floors. The rocket's impact interferes with activities, that neighbour's are developing, causing multiple reac- tions. The illustration, with realistic character and scenery, invokes the time of the original edition, through particular elements, such as clothing, hairstyles and furniture. The illustrations contain an- imated details and a lively track that amplify the effect of rocket on each floor.
<table>
<thead>
<tr>
<th>Criteria for selection / e-picturebook</th>
<th>Device orientation / Interaction</th>
<th>Metaphors of a printed book</th>
<th>Illustration and Text / Interaction with illustration and text</th>
<th>Sound / Music</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Adaptation of a printed book</td>
<td>iPad - Horizontal orientation (HO), Vertical orientation (VO)</td>
<td>Book cover and double page representation: text on left and illustration on right.</td>
<td>HO - double page, similar to the original; text on left and illustration on right.</td>
<td>Oral narration; musical background typical of the time featured in the book, rocket sounds.</td>
</tr>
<tr>
<td>Rocket Book (2011) Peter Newell</td>
<td>Touch and swipe</td>
<td></td>
<td>VO - the illustration occupies the full screen.</td>
<td></td>
</tr>
<tr>
<td>2 Adaptation of an animated movie</td>
<td>iPad - Horizontal orientation</td>
<td>Representation of flipping through a book (Swipe from left to right and vice-versa)</td>
<td>The book begins with a screen that contains the book cover with the title and which corresponds to the forefront of the short film. The narrative consists of a sequence of illustrations, corresponding to the most important plans from the short film.</td>
<td>Oral narration and musical background, from original short film.</td>
</tr>
<tr>
<td>The fantastic flying books of Mr. Morris Lessmore (2011) William Joyce</td>
<td>Touch and swipe</td>
<td></td>
<td>In each place there are animated details that emphasize the narrative; some details are animated and are triggered by interactions. The illustrations vary between black and white and colours, on a symbiotic way. At the bottom of the screen is an icon that activates the navigation, placed on the right vertical, with icons that allow us to configure the display options of the following elements: text, narration, languages, screen, home.</td>
<td></td>
</tr>
<tr>
<td>3 Simple interactions and linear sequences</td>
<td>iPad - Horizontal orientation</td>
<td>Representation of flipping through a book (Swipe from left to right and vice-versa)</td>
<td>The book screens are fully illustrated, show the spaces in which the action takes place and contain small animations with Pum.</td>
<td>Beginning of the book; background music, with cheerful characteristics, which disappears as soon as the books starts; the music returns in the last screen of the book; several contextual sounds, related mainly to dog's actions. Oral narration (optional).</td>
</tr>
<tr>
<td>Quem soxou o Pum? Elundina (2011) Franco e José Carlos Lolle</td>
<td>Touch and swipe</td>
<td></td>
<td>The sequence of plans is done through interaction with the buttons located at the bottom corners and allows you forward or backward, triggering an animated representation of flipping through a book.</td>
<td></td>
</tr>
<tr>
<td>4 Non-linear interaction and narrative</td>
<td>iPad Vertical orientation (VO)</td>
<td>Representation of flipping through a book (Swipe from left to right and vice-versa)</td>
<td>The book title and references to the book's publisher appeared in the initial screen. Opening a color rectangle, as a Venetian blind, shows an area of illustration and text, with three phrases in different rows, on bottom. The illustration space is divided into three horizontal bands, which can move in two directions: left to right and vice-versa. Each band has 20 positions, which corresponds to a distinct sentence. The positions of hands combined construct a single illustration. The movement of each band allows hundreds of image-text combinations. Four icons at the bottom of the application triggers the following actions: oral narration; change to black the background colour of the screen; musical background activation; appearance and disappearance of the text; screens 'photographs'; gallery with photographed images. Screen rotation from VO to HO: star-shaped mask and a pink star, in motion, showing the illustrator's behind.</td>
<td>The movement of each band corresponds to a different sound. Oral narration.</td>
</tr>
<tr>
<td>Dans mon rêve (2011) Stephane Kiehl</td>
<td>Touch and swipe, Horizontal orientation (HO) Without interaction</td>
<td></td>
<td></td>
<td>MEANING</td>
</tr>
</tbody>
</table>
2. Adaptation of an animated movie to an e-picturebook (see figures 6 and 7)

The fantastic flying books of Mr. Morris Lessmore by William Joyce, (2011) is an adaptation, with the same name, from a short film. The narrative is a metaphor that emphasizes the power of books, in the readers' lives, even in adversity, through a librarian's life. The characters representation, their costumes and sceneries, transport us to America, in the 1940s.

3. E-Picturebook with simple interactions and linear sequences (see figure 5)

Quem soltou o Pum? Blandina Franco e José Carlos Lollo (2011)

A child has a dog-named Pum, to who removes the leash so they can play; this action triggers many problems at home. The text may have two distinct readings due to dog's name and to the double meaning from the expression “soltar o Pum”.

4. Non-linear interaction and narrative (see figures 1 and 2) Dans mon rêve | Stephane Kiehl (2011)

Dreamlike narratives that transport us to an unreal space, inhabited by strange creatures, with details from impossible scenarios and poetic texts.

Conclusions

Through the observations it was confirmed that e-picturebooks are anchored in picturebooks, in how they use the image and verbal text and in the way both establish, between the used mediums, semantic relationships. We also observed that the image – static and animated – assumes in communication prevalence over other mediums used in e-picturebooks. However, the use of other medium in the e-picturebooks – sound, animation and video – potentiates new semantics relationships that shall be studied in future and justifies the new terminology of e-picturebook. In general, we observe that background music emphasizes the story's feelings; the context's sound highlights the interactions or the narrative's actions; the oral narration provides a second access to the verbal text; the interaction is presented as a narrative tool to unravel particular communication's aspects and allows modifying the narrative, spatially and temporally; the computing device's characteristics assume an important role in elements choices' to interfaces and narratives.

The diversity and quantity of e-picturebooks observed allowed us to confirm that this type of book holds a significant place that justifies the development of studies around them; a research comparing the children's reading of printed books and e-picturebooks, must be carried out; exploring the educational potential of this type of books, will be other research to consider.

Bibliographical references


