#### Aplicación de nuevas tecnologías a la conservación y restauración del documento gráfico y material de archivo Proyecto I+D+I MAT 2002-01-903 Plan Nacional 2002-2005

# Colour as an indication of the start of a new chapter. Capital letters in illuminated codices.

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### Introduction

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is a basic component of art, an educational tool, and a relevant element in our perception. at does it mean in the history of the book? Its relation to documental terminology can be n Latin: caput-capitis, meaning head. It is also the origin of the way of naming the first letter text, the capital letter, that in turn gives us the origin of the word chapter. And it was these of increased size, coloured, and complemented with natural or fantastic images, which, seginning of each text, marked the beginning of each block of information, or chapter. For son, these first letters are also called initial letters.

Indeed, there are various ways of naming these little works of pictorial art which we can find in book manuscripts and which we know as illuminations, miniatures, or initials and whose possible eymology help us to discover their origin, use and characteristics.

The term illumination has various origins. The first and most probable is that proceeding from the Latin term inluminare, to illuminate, give light. Strictly speaking, an illuminated manuscript is one in whose decoration gold or silver has been used in such a way that it reflects the light.

Another possible origin of the use of the word illuminate is that that derives from alluminare or illuminare, that is, the use of colours with allume (alum), also called lacquers; in fact, in the book "De Arte lluminand" a number of recipes are described for making lacquers with alum for use in the creation of miniatures.

Illustrations 3, 4, 5.

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Finally, we can also seek a theological interpret alluding to the fact that the image is illustrative, illumina and orientational with regard to the contents of liturgical text. inating, of th

Illustrations 6. 7.



Meanwhile, the term **miniar or miniature** seems to derive from the term minium, the ancient name for two different products: lead oxide (Pb3O4) and cinnabar – or mercury sulphide - (HgS), a dark red colour much used in ancient times and especially in the flustration of books. Some Latin authors believe that it derives from of Seville tells us that "*Minius Huvus Gallicae nomen* a colore pigmenti sumpsit<sup>e1</sup>.

Illustration 8: map.

Codex. Miniature Choir Boo

Another interpretation is that which seeks its etymological origin in minus (small), in reference to the small size of the illustration.

Miniature is, in general, all painting in a manuscript<sup>2</sup>. Nevertheless, if it does not appear as an independent image making reference to the text, that is, in as far as the image is incorporated in the first letter of the first word of the text, then it would be more appropriate to talk about an **initial**, corptal, or **chapter letter**.

Illustrations 9, 10, 11, 12, 13.



## **History and Evolution**

The illustrations of religious books was decisive in the advance of Christianity through the pagan Europe of the Middle Ages. If this favoured the spread of reading and writing, the coloured images illustrated the texts and disseminated the iconographic motifs (the attributes that identified the saints, the symbolic colours, or the decoration scenes and motifs). The Catholic rite ensured the continuing manufacture and decoration of the books used in the choirs, which were illustrated with miniatures and multicolour initial letters, at no time losing ther ididactic nature, which transcended the contents of the text in a graphic way, by means of little works of art with a variety of characters and vegetal, architectonic and geometric elements. vegetal, architectonic and geometric elements

Illustrations 14, 15.

In the sixteenth and seventeenth centuries, when this art blossoms in Spain, of outstanding importance were the centres of the creation of choir books with miniatures at the Monastery of Guadalupe (Caceres), El Escorial, the cathedrals of Avia and Toledo, and in Andalusia: Sevelle, Jaen, Cordoba y Granada. The choir books of the sixteenth to nineteenth century have hardly been studied in Spain; that may be, among other reasons, due to the sustained thesis of stylistic and artistic decadence, above all after the investments were made in the decoration of objects used in the cult and especially in the manufacture of choir books.

**Materials and Techniques** 

employed in the elaboration of miniatures

The fact of being of such specific use, along with their placement exclusively in religious institutions, most of which stopped using them long ago, has led to these choir books being forgotten by historians and artists and arriving at their present generally dreadful state of conservation or even their complete loss (it is not unusual to see them being re-used in other bindings, their illustrations cut out to be framed, cut to pieces, or sold as lampshades, for example). The techniques of their creation have also been forgotten, along with the materials used in processes that would require the intervention of several professionals (the manufacturer of parchment, the scribe, the sever, the binder, the several professionals (the manufacturer of parchment, the scribe, the sewer, the binder, the musician, the illustrator). The complex process began when the parchment was lined to determine the space to be used in accordance with certain geometric norms, and then the space was marked off by pricking. The spaces for the illustrations were left blank and instructions were noted down about the content of the image or letter which was to be added later by the illuminator.

#### Illustration 16.



Bibliography 1V. Bertoki, Nueva Revista de Filologia Hispánica I, (1947), p 146. 2. D. M. Gul, Illuminated manuscripts, Brockhampton Press (London, 1996). 3. M. Clarket, The and oil al coloum. Mediaeral Recipe Bockio for Painters and Illuminators, Archetype Publications Ltd. (London, 2001).

The song and music were written afterwards with the staves in red and the musical notes in black. The creation of a miniature was carried out in various phases: the preparation of the support, the drawing, the preparation and application of the pigments and the adhesives, the gold, and the silver.

With respect to the colouring technique<sup>3</sup>, the books subjected to our studies are analyzed to discover if the were executed in accordance with the traditional process of mixing the pigments (of mineral and organic origin) with organic adhesives (detected by infrared spectroscopy) to achieve thin temperas. The colouring substances used in these books should present carticin characteristics whan temperas. The colouring substances used in these books should present certain characteristics when they are used to realize illustrations on parchment, (fine granulometry, saturating capacity, chemical competence). The colour is applied in very fine layers and the brush strokes are barely noticeable. Finally, the highlights have been done in white and the shade has been emphasised. The surface has a mat o semi-matt finish and the layer of paint is porous and semi-flexible. It has been observed that the interaction of the colour in the surport is porous and semi-flexible. It has been experied that the integration of the colour in the support is

superficial; the superposition of layers was identified by means of stratigraphy. We discovered that the books were at times put to use even before the illustrations had been finished.

### Illustrations 17, 18, 19,

For the analysis of the colouring substances the following equipment was used: scanning electron microscopy, an energy dispersive X-ray analyser, X-ray diffraction, infrared spectroscopy, optic microscopy, liquid high resolution chromatography or capillary electrophoresis.







