Thinking about color and the ‘Reality Effect’ in the cinema

Considerando a cor e o “Efeito do Real” no cinema

Maria Helena Braga e Vaz da Costa

ABSTRACT
A great number of different views regarding realism has been in evidence. Whether greater realism in the cinema is welcomed or whether it is criticized, there is no doubt that realism is always a matter of concern in discussions about cinema’s vocation. It is not easy to define realism, and even though the general opinion is that realism is a determining factor in the cinema, it was not always the only ideological need responsible for the introduction of new technologies into the cinema. This article will situate color within this perspective.

Keywords: cinema, color, realism.

RESUMO
Um grande número de visões sobre o realismo cinematográfico tem estado em evidência. Independentemente da opinião se um maior realismo no cinema é bem-vindo ou deve ser criticado, parece não existir dúvida de que o realismo é sempre objeto de discussão no contexto da pretensa vocação do cinema. A temática do realismo é complexa, e mesmo que a opinião geral seja a de que o realismo é um fator determinante para o cinema, este não foi a única necessidade ideológica responsável pela introdução de novas tecnologias pelo aparato cinematográfico. Este artigo contextualiza a cor dentro dessa perspectiva.

Palavras-chave: cinema, cor, realismo.

Technological innovation can be explained, in the view of some authors, as the outcome of technological research, and for others, as the outcome of economic requirements. It has also been said that a ‘...new technology cannot be successful unless it fulfils some kind of need’ (Buscombe, 1978, p.24). This need should be ideologically determined. In the cinema, the ideological need most usually recognized has been realism.

A great number of different views regarding realism have been in evidence. Whether greater realism in the cinema is welcomed or whether it is criticized, there is no doubt that realism is always a matter of concern in discussions about cinema's vocation. It is not easy to define realism, and even though the general opinion is that realism is a determining factor in the cinema, it was not always the only ideological need responsible for the introduction of new technologies into the cinema. This article will situate color within this perspective.

It is not the intention here to investigate the different views of realism since it is a very complex issue and a great deal of material is already available. However, it will probably be illuminating and valuable to study some

1 Universidade Federal do Rio Grande do Norte. Departamento de Artes, Campus Universitário. Av. Salgado Filho, 3000, Lagoa Nova, 59078-900, Natal, RN, Brasil. E-mail: mhcosta@ufrnet.br
of the views of the realist approach in order to establish the role of color in the cinema and its relationship to realism. Thus, I will trace some of the uses and meanings of 'realism', but only in a general way. What will be the main consideration here is how the introduction of a new element such as color has responded to this 'ideological need' - or has worked against it. Thus, the intention throughout this article will be to undertake an examination of the dominant ways in which color is situated within the realist paradigm.

The relationship between the real world and its cinematic representation has been, for a long time, one of the fundamental themes explored in theoretical debates. Jean-Pierre Oudart (1990), analyzing the system of representation dating back to the Renaissance, advances a more complex view. He suggests that it was 'the position ascribed to the subject' in the figurative tradition of Renaissance painting that gave rise to the representational system prevalent in the cinema. In nineteenth century paintings a 'reality effect' was produced by the use of perspective, effects of light and shade, discontinuity of planes, etc. This reality effect, thus, in Oudart's own words '...is the product of the reinscription of the subject in the representational system of the Western painting' (p. 199).

This 'reality effect' explains why the figures present in these paintings are perceived as 'real'. Oudart (1990) explains that the objects are registered by the spectators as 'being there', i.e. for the spectatorial gaze. Then, the premise for the existence of the object that is represented in painting is assumed and determined by the spectators – i.e. the people who look at the portrayal. As Oudart concludes, it is this premise that 'determine[d] pictorial ideology and practice until the end of the nineteenth century' (p. 190). In painting – as well as in the cinema – the spectator acts as the determining element which reinforces this effect. Oudart named it 'l'effet de réel' – i.e. the 'reality effect'.

The 'reality effect' present in Renaissance's paintings can be linked to the 'reality effect' produced by means of analogy in photography and the cinema as suggested by Oudart. It is true that photography was given the status of a reproduction of reality as soon as it first appeared. When movement – and later the addition of sound and color – was added to the single image, it seemed that the cinema was making its way towards realism. But the addition of movement was not the only objective achieved by the cinema in the search for realism. A Baudry (1974-1975) explains '...the ability to reconstitute movement is after all only a partial, elementary aspect of a more general capability' (p. 43).

The most outstanding difference between photography and the cinema, regarding realism, is that the cinema has 'considerable projective power'. That is, in the cinema this power is recognized by the characteristic of presenting an image as if it were happening in front of the spectator now. Photography always relates to facts that have already happened and is always related to the past (Metz, 1974). The film spectator is absorbed, not by a sense of 'has been there' as Metz (1974) described the sense transmitted by photography, but by a sense of 'there it is'. Metz concludes that the spectator always believes in movement as happening in the present, even if it reproduces a past movement.

The strict distinction between object and copy, [...] dissolves on the threshold of motion. Because movement is never material but is always visual, to reproduce its appearance is to duplicate its reality. In truth, one cannot even 'reproduce' a movement; one can only re-produce it in a second production belonging to the same order of reality, for the spectator, as the first. It is not sufficient to say that film is more 'living', more 'animated' than still photography, or even that filmed objects are more 'materialized'. In the cinema the impression of reality is also the reality of the impression, the real presence of motion (Metz, 1974, p. 9, my emphasis).

However, it seems too much to give all the credit to movement as being the crucial element leading to the 'impression of reality'. Movement gives the image, undoubtedly, an incredible 'vivacity', but it is not in itself responsible for the impression of reality. For instance, movement is present in animated cartoons. These are still perceived as fantasy and not reality by the spectator. In addition to movement it is worth emphasizing the role played by the 'impression of continuity' (Baudry, 1974-1975). As Baudry (1974-1975) writes, the fundamental point in a film '...is the feeling of continuity which joins shots and sequences while maintaining unity and cohesion of movements' (p. 44). But this, by means of analogy, is also present in cartoons. What is it then which links films to reality? It is the element of approximation to the real world. An existing object, which we see on the screen, serves as a reference, as a 'link' between the 'two worlds'.

Accordingly, Jean-Louis Comolli (1985) has suggested that the cinema in its earliest stages was developed as a means of accurately reproducing reality. He then explains how the introduction of color is situated within the cinema realist trajectory:
In fact, it is a matter not simply of a gain in the sensitivity of the film but also of a gain in faithfulness to natural colours, a gain in realism. The cinematic image becomes more refined, perfects its ‘rendering’, competes once again with the quality of the photographic image which had long been using the panchromatic emulsion. The reason for this ‘technical progress’ is not merely technical, it is ideological: it is not so much the greater sensitivity to light which counts as ‘being more true’. The hard, contrasty image of the early cinema no longer satisfied the codes of photographic realism developed and sharpened by the spread of photography. In my view, depth (perspective) loses its importance in the production of ‘reality effects’ in favour of shade, range, colour (p. 131).

Comolli (1985) points out that the motivation for the technological development of color and its introduction in the cinema is an ideological matter. ‘Technical progress’ is the outcome of more than simply research in the laboratory. Technical progress is rather the outcome of ideological factors that give ‘impulse’ to technical discoveries. Once, in his view, photography with techniques such as deep-focus satisfied the realist codes, something else had to be introduced to make the images even closer to the images present in reality. In summary, Comolli assumes that color increases the camera’s analogical capacities to reproduce reality. Thus, ideologically, in his opinion, color should not be studied as the outcome of technological research, Technicolor, or hand-painting for instance, but any study about it should go further back to the use of color in the perspective painting of the Renaissance.

The ‘reality’ of film is a matter of representation. Film is a succession of images that are ordered according to certain conventions which help filmmakers to guide the spectator through the film discourse. The realism evoked by the cinema’s image is a matter of how the cinematic images are organized and structured. In the realist cinema they are structured in order to make sense according to the images and patterns that exist in our everyday life, e.g. our culture.

An example of convention is, for instance, the point of view shot. When a character looks at the camera and then there is a ‘cut’ to something else, the contiguity between the shots gives the impression that the second shot is what the character sees. Thus the point of view shot is a formal device through which the spectator observes as if through the character’s own eyes. The spectator seems to be witnessing what a particular character actually sees, and often, how the character sees it. The point of view shot, thus, ‘...engage[s] the spectator through identification with the look of a character’ (Cook, 1985, p. 214). The position of the camera, with its formal devices, can thus assume control over the spectator’s perceptual responses and emphasize the impression of reality. These conventions are the mechanisms by which images are organized into a distinctive system of meanings, being different from that of other representational forms.

Given this capability of the cinema, some realists believe that film should emphasize its recording capacity to the highest degree. It should represent on the screen an image as close to its referent in the everyday world as possible. Film should aim to capture reality by adding nothing to it. In the realist view, film must not deform reality. Adherents of realism justify their position by explaining that the objective of cinema, since its beginning, has been (and is) to reproduce reality so as to come closer to the ‘myth’. In summary, from the point of view of realist theorists, realism is an artistic tendency in which the intention is to reproduce reality as faithfully as possible in order to obtain the maximum of verisimilitude.

This is one way to make, comprehend and explain the cinema, but the reality of cinematic images goes beyond the means of mechanical reproduction. Some filmmakers, such as Carl Dreyer and Jean Renoir, rejected the idea of making the cinema a strict recording of nature. For them, film had to free itself from ‘the embrace of naturalism’ in order to express the ‘truths’ of reality.

We have to wrench the film out of the embrace of naturalism. We have to tell ourselves it is a waste of time to copy reality. We must use the camera to create a new language of style, a new artistic form. (Carl Dreyer in Jacobs, 1970, p. 4-5).

All technical refinements discourage me. Perfect photography, larger screens, hi-fi sounds, all make it possible for mediocrities slavishly to reproduce nature; and this reproduction bores me. What interests me is the interpretation of life by an artist. The personality of a filmmaker interests me more than the copy of an object (Jean Renoir in Jacobs, 1970, p. 9).

Andrew (1976) asserts that the filmmaker has two things in mind: reality and the cinematic record of this reality. He has two aspirations: ‘...the recording of reality through the basic properties of his tool and the revealing of that reality through the judicious use of all the properties available to his medium’. For instance, for filmmakers
like Renoir and Welles, long takes and deep-focus are held to preserve the unity of time and space that exists in reality. Of course these are ‘techniques’ and in reality the objects are presented in a different way. However these techniques work in order to establish the ‘seamlessness’ of spatial and temporal sequences within the film. This, instead of making the images diverge from reality, gives them their particular realism.

Moreover, Andrew (1984) points out that realism in the cinema is driven by an aspiration to make the audience understand instantly the film’s plot. Thus, it becomes apparent that in watching a film one is likely to accept the screen world as being a true representation of nature. This is due to the so-called ‘partial illusion’. The film gives simultaneously the effect of something actually happening as well as the effect of a picture of what is happening – the spectator is aware of the fact that what he/she is seeing is a representation. Thus, the ‘reality effect’ produced by the cinema is in fact imperfect. The cinema’s images are accepted as real but they are quite distinct from reality. In the cinema all kinds of transformations of real images are possible. These images, which are the result of these transformations, are actually impossible to find in reality (Stephenson and Phelps, 1989).

It is commonly believed that because the camera records an element that is part of the real world, it provides the spectator with a concrete and neutral image of that reality. However, it must be noted that the object seen through the camera lens is, *par excellence*, a representation. The real object – the object found in reality – undergoes a transformation after being recorded by the camera. This transformation can be caused by the filmmakers’ manipulation or simply by the natural distinction that is made between the two objects – the image and the ‘real’ object. Having this distinction in mind one should consider that the realism evoked by the cinema’s images is a matter of differentiation between the two objects and also a matter of making analogies between the two (Nichols, 1981).

Thus, the best method of approaching the ‘realism’ evoked by the cinema’s images is by trying to consider and understand the relationship that comes from the image and the real object; how things and people are perceived within the ‘cinema world’; and what connection exists between real perception (perception of reality) and filmic perception. The cinema creates a world which is distinctively recognizable. The audience comprehends it by making analogies between the world of the film and their own world. As Metz (1974) concludes, the secret of film resides in the fact that ‘...it is able to leave a high degree of reality in its images, which are, nevertheless still perceived as images’ (p. 14).

It seems clear that film sustains an ‘effective and perceptual’ complicity with the spectator. The cinema has the very convincing potential of making the spectator believe in its images; not entirely, of course, but more intensely than other means of representation such as painting and photography. As Metz (1974) points out, film ‘...speak[s] to us with the accents of true evidence, using the argument that “it is so”’ (p. 4). Thus, the spectator has a very powerful relationship within the cinema. The spectator sustains the realist cinema. The spectator is the one who interprets the cinema’s images as being ‘real’.

Film can never become reality itself because the spectator will always maintain consciousness of the distinction between film and reality (Metz, 1974). As Metz (1974) points out, ‘...the spectator perceives it [the image in the film] as such and does not confuse it with a real spectacle’ (p. 14). Technology may be developed to its full extent but the furthest it will reach will be improvement in the fidelity of the cinema’s reproduction. In fact, realism has never been a question of what *is* real but of what is *accepted* as real (Buscombe, 1978, p. 24, his emphasis).

The idea is that the realism of cinema is based on a psychological notion of reality. So, some theorists assume that realism, in a ‘psychological sense’, has not to do with the accuracy of the reproduction ‘...but with the spectator’s belief about the origin of the reproduction’ (Andrew, 1976, p. 138). It must be stressed here, however, that this psychological sense is a belief that originates in the spectator’s mind, a belief in the representation, in the approximated reproduction of reality, but not an assumption of the film’s image as being the real image itself. This approximated reproduction, or this relation between the image and reality, is a consequence of the codes and conventions established in the cinema and accepted by the audience.

Thus when colors seen in the real world are shown on film what is in fact perceived is the representation of what is known as the real color of life. Moreover, because colors in film do not look exactly like the colors in reality, this does not mean that color can affect the credibility of the film images. Watching a film, the spectators have to accept the point of view given to them. This is a very important point to be considered if a complete understanding of color is to be achieved. As will be demonstrated later, one of the causes for the delay in accepting color in films was a matter of accepting the difference between the colors presented in reality and the colors that were shown on the
screen. Films are not natural events and it is pointless to accept this as an inherent property.

Having mentioned all these considerations, it is useful to offer an account of how color is situated in the realist cinematic forms, conventions, and codes that characterize the realist approach. Next I will draw on the various views of color and its place in the world of cinema. Special attention will be given to its relationship to realist cinema, analyzing how color works within it (or against it).

The ‘Reality’ of color: What was wrong with it?

The use of color in the cinema involves associations at different levels: (i) the physical, in the way that color can affect the viewer giving him/her a more or less pleasing feeling; (ii) the psychological, because color can stimulate psychological responses; and (iii) the aesthetic, because colors can be chosen selectively according to the effect they can produce, considering their balance, proportion and composition within the film. In this part I will consider these three characteristics of color in order to produce a more complete overview of the role of color in the cinema.

To do this, it is, first of all, worth making clear the two main views of color. The first is that color represents an ‘improvement’ in realism. The second is that color can be freed from the ‘shade’ of realism, giving birth to a wider range of signifying possibilities. Color is then an element that can be used for distinctly non-realist purposes.

In the first view, the underlying argument is that a film, with elements such as sound and color, achieves an aura of authenticity, preserving and enhancing a sense of reality. Thus, color could be seen as just another element that could approximate the cinema’s likeness to reality. However, initially the intricacy of making a multiple color-scale film could not be captured quickly enough to take over from monochrome film. The colors present in early films were far from what people would call ‘real colors’. Moreover, color was a new and unknown additional factor for filmmakers and could slow down the construction of the film.

Because of this and other reasons, critics of the realist ideology, such as Edward Buscombe (1978), counter the idea that the introduction of color in the cinema meant an improvement in realism in at least two ways. Firstly, they point to color’s incompatibility with narrative realism as a consequence of perceptual problems. Secondly, they note the non-realist uses to which color was put. As will be demonstrated later, at first color meant not an improvement in realism but an improvement in the development of an ‘unrealistic cinema’ and the capacity of filmmakers to express fantasy.

The ideology of realism may have been an early determining factor in motivating technological development in the cinema, but clearly it was not the only need that was fulfilled through technological innovation. The analysis of the introduction of color in the cinema provides an interesting example in which the ‘gain in realism’ was not as straightforward as some theorists have tried to imply. On the contrary, the transition from black-and-white films to color films – initially at least – was full of non-realist aesthetic experiments. This occurred at least until the use of color for narrative realism became its dominant cinematic form.

It is worth noting that the absence of color in films, which was a fundamental divergence from nature, was not obvious until color film called attention to its absence (Cf. the introduction of sound in the cinema). The use of black-and-white stock and the consequent reduction of all colors to it very considerably modified natural colors. Notwithstanding, black-and-white films can transmit important plot details without loss of verisimilitude. When, in a black-and-white film, there is a reference to any specific color, this is no less effective because the color cannot be seen. As Dick (1990) points out:

In Jezebel (William Wyler, 1938), a black and white film, Julie (Bette Davis) arrives at a ball in a red dress that she has been forbidden to wear. The dress photographs as non-white, and white was the colour Julie was expected to wear. Juliet’s [sic] act of rebellion is as effective today, when color films are the norm, as it was in 1938 when color films were the exception (p. 73).

The ‘truth’ is that the audience can accept the absence of color in films when other codes of narrative realism are taking place. Color thus was not the fundamental element in the spectator’s judgment about whether the film was realistic or not. As Arnheim (1958) points out:

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2 Black-and-white films did not even leave natural brightness values untouched. The reds, for instance, may become too dark or too light, depending on the emulsion (Arnheim, 1958).
The spectator experiences no shock at finding a world in which the sky is the same colour as a human face; he accepts shades of grey as the red, white, and blue of the flag; black lips as red; white hair as blonde. The leaves on a tree are as dark as a woman’s mouth. In other words, not only has a multicoloured world been transmuted into a black and white world, but in the process all colour values have changed their relations to one another: similarities present themselves which do not exist in the natural world; things have the same colour which in reality stand either in no direct colour connection at all with each other or in quite a different one (p. 22).

Taking advantage of the ‘so celebrated’ likeness of the cinema to reality, it was part of Technicolor’s marketing strategy to convince the film industry that color was actually pivotal in the improvement of realism and suitable for any film. The company emphasized that the complete absence of color was unnatural. The argument was that we see real life in color, thus realist films should be in color. Natalie Kalmus, a Technicolor artistic adviser, wrote:

Motion pictures have been steadily tending toward more complete realism. [...] The advent of sound brought increased realism through the auditory sense. The last step – colour, with the addition of the chromatic sensations – completed the process. New motion pictures are able to duplicate faithfully all the auditory and visual sensations. This enhanced realism enables us to portray life and nature as it really is, and in this respect we have made definitive strides forward (in Watts, 1938, p. 116).

Nevertheless, at the same time that Technicolor claimed that its product was necessary for a gain in realism; it warned that its ‘exaggerated’ use would be unnatural. It could have an unpleasant effect upon the eye and upon the mind of the spectator causing perceptual difficulties (retinal fatigue). Early color films also faced the problem of how to be cut – i.e. edited. A minimal variation between shots could change the balance between the colors and cause perceptual disharmony. This provoked a ‘movement’ against the use of color in the cinema.

With these ‘perceptual’ problems faced by early color cinematography, another point was consequently raised. An ‘exaggerated’ use of color, allegedly, had a disruptive effect upon perception distracting the audience’s attention from essential elements of the narrative. Color then was seen to have a controversial relationship with the narrative. Evidently, this arose in part because of the short technical scale of familiarity with color’s use in filmic construction. Early evidence of color’s ‘distractions’ can be found in a comment by Douglas Fairbanks whose film The Black Pirate (Albert Parker, 1927) was produced in color:

Not only has the process of color motion picture photography never been perfect, but there has been a grave doubt whether, even if properly developed, it could be applied without distracting more than it added to motion picture technique. The argument has been that it would tire and distract the eye, take attention from acting, and facial expression; blur and confuse the action. In short it has been felt that it would militate against the simplicity and directness which motion pictures derive from the unobtrusive black and white (in Buscombe, 1978, p. 24).

Another example of color’s perceptual difficulties is identified by the scientist Cornwell-Clyne:

When the audience’s attention is diverted from the action of the drama, or from the drama in the action, by a colour incident, arrangement, or phenomenon, then such colour is an intruder destroying the unity of the film and usurping the proper functioning of other more important elements of the film dynamics (in Huntley, 1949, p. 194).

Cornwell-Clyne explained why color films caused eyestrain.

We have for years trained audiences to accept large out-of-focus areas, though such areas correspond to nothing experienced in normal vision, which is sharp always at the centre of vision. This has become a convention or even a stratagem of photographic technique. But a large background area in poor focus when rendered in colour became curiously disagreeable, especially if it contains any parts which are relatively pure in hue (bright colour), because the eye is inevitably attracted thereto and it is the reflex attempt to focus the unfocusable which is the cause of the unpleasantness. The result is eyestrain (Cornwell-Clyne, 1951, p. 197).

By contrast, in Basten’s (1980) opinion, color was not an element that could distract the spectator’s attention but rather attract it. As he writes:
The eye, accustomed to the shadings of black and white, has less difficulty meeting the demands of the new element; the color is not a distraction but an attraction – as valuable and little more obtrusive than the musical score (p. 61).

Such imputed distractions – perceptual and consequently narrational – were not acceptable at a time when realism was the motor driving any introduction of new techniques and technological innovations in the cinema. This partly explains the time lag in the exploitation of color technology regarding its full expressive potential. Here, it is clear that the time lag between color’s invention and development and its widespread use occurred because people were expecting color in films to be exactly like color in nature, and early color films were, from the above perspectives, a complete failure as representations of ‘real colors’. Therefore, by the 1930s the realist codes were well established in black-and-white. The audience was familiar with them. When a new element, such as color, was introduced in the cinema it required time to be assimilated.

Another argument that counters the realist use of color is the association of color with ‘unrealistic’ genres. Evidence of the unreality of color is found when its use is deployed in the genres of fantasy and spectacle – i.e. unrealistic genres such as cartoons, musicals, westerns, costume romances, fantasies and comedies (Buscombe, 1978). However, it must be emphasized here that the use of color in these ‘unrealistic’ genres was not a consequence of someone’s – producers, filmmakers, etc. – conscious determination to associate color with them in order, say, to find a more suitable use for an element that was causing such perceptual problems. They were still looking at color as an element that could improve the realism implicit in the cinema’s images.

Stanley Cavell (1979) contradicts the idea that color makes film ‘unrealistic’. He argues that its association with non-realist genres happened not merely because color in film was inaccurate or because the stories in color films were non-realist. He points out: ‘Movies in color seemed unrealistic because they were undramatic’ (p. 91). As will be argued later, the dramatic quality of color was one of the most important factors in its cinematic development.

As it happened, the introduction of color coincided with the great boom in the production of musicals, themselves an outcome of the introduction of sound. It is evident that there were infinite opportunities for the non-realist use of color in genres like this. It does not have to be tied to a representation of reality, past or present. This category of film, rather, is primarily in the service of visual pleasure (Buscombe, 1978). Consequently color in the early 1930s was an outstanding provider of ‘visual pleasure’ central to new forms of cinematic reception, rather than an instrument in the service of realism. Color was then used in films without any dramatic or narration function – but to give ‘glamour’ to the image, to produce a colorful world by using pleasant and beautiful effects.

The visual pleasure so exploited and celebrated after color’s introduction in the cinema offered a great opportunity to explore and intensify the image, for instance, of the female body (See Neale, 1985). In a time when the ‘star system’ was a very important product, color served the purpose of emphasizing the looks and beauty of the ‘stars’. As Steve Neale (1985) remarks: ‘...the development and description of the spectacle of colour in film has been centered around the image of the female body as the focus simultaneously of nature, artifice, beauty and the look’ (p. 109).

With this tendency to associate color with the representation of ‘the unreal’, no one at that time could expect to see realist films in color. The continued use of black-and-white in features like documentaries as a guarantee of truth attests to this argument. Filmmakers, too, were concerned with color and its usage. The passage below is used by the film director John Huston to justify the use of black-and-white, rather than color, in his film Reflections in a Golden Eye (1967). He thought that because the plot of the film was basically concerned with human emotions, and thus real emotions, it would not make sense to use color in it.

_color in nature is very different from color on the screen. When you sit in a darkened theater your attention is so concentrated on the screen that the images seem more fully saturated with color than they are in reality. Thus color effects are unnaturally heightened. This kind of color has been fine for extravaganzas and spectacular films. But when we are dealing with material of psychological content it becomes invariably distracting as it gets between the viewer and the mind he is trying to search into (John Huston in Basten, 1980, p. 136).

An interesting fact is that filmmakers really began to exploit abundantly this non-association of color with reality. They saw color as a ‘tool’ that could be used by means of differentiation, as a language, between ‘real
world’ and the ‘world of dream’. Evidence of this fact can be found in feature films such as The Wizard of Oz (Victor Fleming, 1939). In this particular film, the use of color is restricted to the private fantasy world of Oz while the ‘real’ world of Dorothy’s Kansas home is shot in black-and-white.

Analyzing these early uses of color (1930s to 1940s) Hollander (1989) considered the advent of color a set-back for the quality of film realism. The advance, he argues, was in the pleasure and excitement that color gave to the images, despite being exaggerated. The exaggerated use of color was, in his view, acceptable in cartoons or musicals but never in realist films or documentaries. Hollander even suggests that color can sometimes be a ‘pure amenity’, a ‘modern luxury’ but not a necessity, at least in order to emphasize the realism of the film images. However, his opinion is that color can also have its realist moments. Hollander (1989) then writes: ‘In documentary nature films,…color has its own abstract “realistic” beauty, which has very romantic overtones’ (p. 48). At first he is concerned with the motivation for bringing color into the cinema criticizing thus color’s ‘distance’ from realist cinema. His conclusion is based on early examples where color had been used with the clear intent of producing a ‘world apart’ emphasizing the ‘beauty’ (of the ‘star’ for instance) in unrealistic genres. But then he seems to recognize and to accept the ‘realistic’ use of color in documentary nature films. Perhaps, because nature and beauty have frequently been linked to each other he assumes that the use of color is thereby justified.

From an anti-realist standpoint, Carl Dreyer’s (1955) position was that expecting color in films to be ‘natural’ was a misconceived approach to its potential usage. The issue of color is addressed differently. ‘Art’, Dreyer argued, has nothing to do with ‘real colors’. Because of the difference between color in film and the colors in nature, he argues, the audience is able to have an enhanced aesthetic experience. Thus, the colors in film can be chosen to harmonize according to considerations regarding its proportion and composition within the narrative, and consequently they can generate great aesthetic effects.

Walt Disney, with his creative use of color in cartoons, appears to provide support for Dreyer’s point of view. Nevertheless, the use of color in his case is still confined to an ‘unrealistic’ frame. However, it is worth pointing out the importance of Disney’s creativity for the later aesthetic development of color. After Disney, a new status was given to color. Disney cartoons were even used as an example by Dr. Herbert T. Kalmus, Technicolor’s director general, to convince the major studios to adopt color, in spite of its being double the cost of black-and-white productions.

You have seen Disney’s Fanny Bunnies; you remember the huge rainbow circling across the screen to the ground, and you remember the Fanny Bunnies drawing the colour of the rainbow into their paint pails and splashing the Easter eggs. You all admit that it was marvellous entertainment. Now I will ask you, how much more did it cost Mr Disney to produce that entertainment in colour than it would have in black and white? The answer is of course that it could not be done at any cost in black and white, and a similar analogy can be drawn with respect to some part of almost any Technicolor feature (Dr. Kalmus in Coote, 1949, p. 73).

Regarding the creative use that Disney made of color Spottiswoode (1950) remarks:

The director can choose his colour as freely as can the painter. Disney has already provided many examples of the subjective, non-naturalistic use of colour (e.g. the ‘babes in the wood, when the witch falls out of the sky in to a cauldron of boiling liquid, and undergoes the most entertaining changes of colour in the process of cooling on the ground) (p. 152).

In animated cartoons color has served as the ‘natural medium of expression’ which made it an important form of entertainment. Nevertheless, regarding Walt Disney’s cartoons, it is interesting to see a theorist like Kracauer drawing from their fantasy worlds a realist conclusion. Kracauer (1961) saw Disney’s cartoons as an attempt to link the use of animated color with the desire to achieve realism. Kracauer explains that animated cartoons, of course, do not ‘hold truth’ as does a photographic film because, unlike the latter, they are pictures of ‘the unreal’—of what never happens. However, he identifies in cartoons increasing attempts to express fantasy in realistic terms.

From his first Mickey Mouse films to Cinderella and beyond it, Disney has drawn the impossible with a draftsman’s imagination, but the draftsman in him has become more and more camera-conscious. There is a growing tendency toward camera-reality in his full-length films. ...It is nature once again which appears in Snow White, Bambi, and Cinderella. To intensify this impression Disney shoots his sham nature
Thinking about color and the 'Reality Effect' in the cinema

as he would the real one, with camera now panning over a huge crowd, now swooping down on a single face in it. The effects thus produced make us time and again forget that the crowd and the face in it have been devised on a drawing board (Kracauer, 1961, p. 89-90, my emphasis).

It is worth noting the difficulty that some authors and theorists have in accepting color in films. They look desperately for a realist response within the use and exploitation of color. However, what they do not take into account are the aesthetic and dramatic values that color can represent within the narrative. It does not seem appropriate to say that color constituted a ‘set-back’ in the quality of film realism, as Hollander (1989) has argued. Realist films were continuously being made and eventually any kind of other development could have arisen from this experience. Moreover, at a later stage, the use of color proved to be acceptable within realist genres. Rather, it must be said, that the realist ideology represented an obstacle to the development of color regarding its dramatic and narrational capabilities. If people were not so ‘obsessed’ with making and seeing the cinema as ‘the mirror of life’ perhaps the potential of color and its use would have been realized before they actually were.

Color as a potential resource

The issue not addressed by realist advocates of color or those demanding its integrative function is that of why color, or another signifying element, cannot be detached from the other elements in the narrative assuming an independent position in films? Why are many historians and critics reluctant to consider other functions for color than those which strictly serve to improve realism? The value of color in films lies in the fact that it is a ‘natural element of visual reality’ and permits ‘artistic effects’ (Neale, 1985). Color can be used to give visual pleasure, an element that can be deliberately manipulated. It can be used expressively, according to which colors are chosen, how they are arranged and mixed to emphasize dramatic effects. Color can also constitute a significant element of the narrative. Gradual modifications in the color of a scene as well as changes in costume and setting can assume different significances.

As Branigan (1984) comments:

The color itself, of course, may be produced in many ways: through the use of special film stock, camera filters, mise-en-scene, lighting, laboratory processing, etc. It is not the technological origin which is decisive, but rather the employment of color in a system of character narration (p. 94, my emphasis).

For some filmmakers color could be integral to cinematic realism only if it were not separated from the narrative. Accordingly, in his study on the use of color in the cinema Bettetini (1973) analyzed the early use made of it and the problems faced by early filmmakers. He found out that the greatest difficulty experienced by the director when deciding whether or not to use color was the ‘...impossibility of a thorough and secure control of chromatic combinations’ (p. 121). For him the tonality and intensity that a certain color assumed when printed on film was one of the problems faced by the directors.

Bettetini (1973) is aware of the fact that new technologies made it possible to reduce the accentuated difference between the colors of reality and those of the filmed image. Even so, he continually worried about the great distance that separated film from reality. Bettetini’s (1973) interest in this matter drove him to associate the use of color with realism, and consequently his suggestion was that a ‘chromatic equilibrium’ should be reached in order ‘...to establish an adequate point of reference for the action itself...’ (p. 121).

In Bettetini’s (1973) view, because color is an element that conditions the entire narrative (with its different use in different shots), it must be used carefully, without any exaggerated application. Thus, he attributes to color a ‘simple integrative function’, that is, every exaggerated use of it should be avoided. Bettetini points out that while color does not bring the images ‘...into a perfect and impersonal conformity with the forms of nature...’ (p. 125) it should not be used in realist films, which are in his view ‘...a tendency which is to some degree latent in the entire history of the cinema and which the film industry still presses for’ (p. 125). However, Bettetini is assuming that the function of the film is to produce an ‘unified aesthetic experience’.

Another interesting point to be made is related to Arnheim’s (1933) statements regarding cinema and art. In his study he compares the creative work of the painter with creative work in the cinema. Arnheim argues that a painter creates colors afresh on his palette. The painter is
then able to choose appropriate tones and the way that masses of color will be distributed. As Arnheim explains, the painter tries ‘...to get as far away from nature as is necessary to convey his artistic intention’ (p. 77).

Making analogies between painting and the cinema, it could be said that films are the product of an artist (the filmmaker) and thus the elements and techniques used in films are manipulated. So, even if the splendor of color in painting is said to be full of choices - and in film this choice cannot be exercised to its full extent - why cannot the colors in film be used as creatively as they are in painting? (Spottiswoode, 1950).

But Arnheim (1933) seemed to think – and his view was certainly influenced by the prevailing codes of cinematic realism of his time – that a creative and free use of color would be impossible. For him the free use of color would result in the mistake of keeping a distance of the film image from reality.

[...] black-and-white has for many years been a recognised and most effective medium. The reduction of actual colour values to a one-dimensional grey series (ranging from pure white to dead black) is a welcome divergence from nature that renders possible making of decorative pictures rich in intellectual significance by means of light and shade (Arnheim, 1933, p. 77).

However, later Arnheim states:

Film is the art that approaches most nearly to reality – if by reality we understand the sum total of what our eyes and ears tell us. [...] a film image shows us the world exactly as we see it. Whatever the camera reproduces is reality, the most exact reality (Arnheim, 1933, p. 160).

Arnheim’s position is indeed contradictory. In the first passage he confirms the black-and-white acceptance by the audience as realistic. Then in the second passage he states that film represents the world exactly as it is. But the world is in color. It is worth noting this ‘blind spot’ in Arnheim’s interpretation because it accounts for the inherent contradictions of any realist purism.

Rouben Mamoulian (1935) predicted the – highly predictable – widespread substitution of black-and-white by color films. With this in mind, the relationship between realism and color became his central concern. However, in contrast to some filmmakers’ and theorists’ position, his view was that color could be used realistically. It could be used within the narrative structure to intensify the dramatic effect within some scenes. Mamoulian argued for an ‘emotional realism’. He believed that the only danger in the adoption of color would be its ‘excessive’ use, as did many before him (e.g. Bettetini). He pointed out the ‘excessive’ dialogue that had accompanied talking pictures. The same, he asserted, could occur with an injudicious use of color. Mamoulian (1935) writes: ‘Colour should not mean gaudiness. Restraint and selectiveness is the essence of art’ (p. 226). Nevertheless, the notion of ‘excess’ should be interpreted in the context of the period upon which statements such as Mamoulian’s were based. It follows that as long as the aesthetic qualities of color became known and its use made easier, this ‘excess’ became somewhat ‘natural’. In melodrama, for instance, color is used to excess, but it is accepted within the genre.

It must be noted, however, that, as time went by, and color’s creative use for dramatic purposes came to be evident, Mamoulian (1960) reviewed his early statements. He asserted that ‘...it is the psychological and dramatic use of colour that becomes of paramount importance’ (p. 71). He even argues that:

The film maker should never allow himself to be strapped by naturalism in treating with colour values. All sorts of creative departures, even to radical extremes, should be practised on the screen, the deciding factor being not – “is this the way it is in life?,” but “is this the best way to express the desired emotions?” (p. 74).

An example of this is the ‘effective atmosphere’ created by the use of color in the ballroom sequence in Becky Sharp (Rouben Mamoulian, 1935) which was the first feature film made using Technicolor’s three-color process. The scene in question is built up through a series of shots in which the colors ‘flow’ in a sequence from cool and sober colors to more ‘exciting’ colors like orange and red. This effect is achieved through the selection of the colors of the dresses and uniforms worn by the characters. In his description of the scene, Mamoulian (1960) points out the importance of his decision to use color in order to produce an ‘emotional climax’, therefore he was aware of the ‘unreality’ of his decision. However, the realism of the images, taking the end-result intended into account, was not compromised. Mamoulian (1960) gives this description:

A ball is given in Brussels on the eve of Waterloo, at which Wellington, his officers, and hundreds of
Evidently, the ‘value’ of Becky Sharp lies in the fact that it was the first film in which the creative use of color most effectively showed its ‘links with unreality’. After Becky Sharp the film industry increasingly recognized the ‘new color’ as an element that could become an integral part of the motion picture medium (Cf. Jacobs, 1970).

The famous Soviet film director Sergei Eisenstein (1976) considered color ‘a dramatic factor’ and as such it had to be used only when necessary. Color, in Eisenstein’s opinion, had to be fundamental for the development of the action. He points out that color functions ‘...as a vehicle for a certain dramaturgically unique moment’ (p. 383). Eisenstein makes clear his position. He does not accept that color should be used only as ‘one more element’ to be added to the cinema image. Color, like any other ‘montage’ element or technique, must be used for a specific purpose. It must have a ‘function’ within the narrative structure.

A good example of the use of color for dramatic purposes is given in Black Narcissus (Michael Powell, 1947). In the sequence in which a nun has decided to leave the church, she appears at first in a nun’s black costume and without any make-up. The next time she appears, she abruptly opens the door and there she is in a red dress with her face covered in make-up. This transformation for Mamoulian (1960) ‘...carried more shock to the audience that it could ever have if it were photographed in black and white ...’ (p.76). Again, the emotional realism ‘so celebrated’ by Mamoulian proves to be a powerful use for color.

There are other ‘expressive’ uses of color to note. It can be used for instance to emphasize a specific character’s ‘psychological disturb’. The emotional quality of color became one of the most important effects that could arise from its use. In Alfred Hitchcock’s Marnie (1964), for example, the heroine has an intense aversion to the color red, a consequence of her attempt to suppress all memory of a murder committed at the time of her childhood (Dick, 1990). The film brings us into the color structure in a very effective way. Whenever the color red appears, the character of Marnie becomes aware of it. Not only does the expression on her face denote great distress but the color red becomes the only color on the screen. With this ‘artifice’ Hitchcock, from the beginning, calls the attention of the spectator to the psychological significance of this specific color in the narrative.

Still, the first time Hitchcock calls attention to the significance of the color red is when, for the first time in the film, Marnie visits her mother. She sees red flowers in the vase in the living room. The aversion to the color red is unequivocally established in this scene. To reinforce the effect, Hitchcock then fills the scene with red, the color of Marnie’s hallucination.

Alfred Hitchcock provides another opportunity to comment on the signifying use of color in films. In Vertigo (1958) the colors are chosen in such a way that they make a contrast between the interior (browns, oranges, yellows) and exterior scenes (greens and blues). Inside the apartments of Scottie (James Stewart) and Midge (Barbara Bel Geddes), for instance, soft browns, oranges and yellows predominate. Important points in the film are intensified by Hitchcock with the introduction of the color red. When Scottie first sees Madeleine (Kim Novak) in the restaurant, the walls are full red. Again, when Scottie takes Madeleine to his apartment after her attempted ‘suicide’, the orange firelight gives a strong effect to the scene. In the exterior scenes, the color green predominates. It is present in the scene in front of the art museum where Madeleine frequents and in the Redwood Forest where Madeleine goes with Scottie.
The movement of the camera from one color space to another also establishes the powerful contrast between the two distinctive ‘worlds’ set up in the narrative. An example is when Scottie, following Madeleine by way of gloomy passages, opens the door of a florist’s shop full of bright and red flowers. As Cavell (1979) points out: ‘The moment is almost comic in its display of assured virtuosity’ (p. 84-85). However, in the end, Hitchcock’s use of color is ‘turned inside out’. When in Judy’s hotel ‘Madeleine’ appeared again, after Scottie’s transformation of Judy, their embrace is illuminated by a green neon light that comes from outside the window. As Johnson (1970) points out: ‘Color helps elevate what might have been just a gimmicky melodrama into a haunting study of obsession and illusion’ (p. 236) (See also, Cavell, 1979; Dick, 1990).

After the 1960s virtually all fiction films were photographed in color. Then, only with the universal use of color in the cinema did the use of black-and-white photography become an aesthetic choice (Cf. The dramatic effect produced by silence in a sound film is a result of the domination of sound). Similarly, the use of black-and-white film stock had significant connotations after the general use of color film. Examples of this are films such as Young Frankenstein (Mel Brooks, 1974) and Manhattan (Woody Allen, 1979), which were shot in black-and-white. The decision to shoot these films in black-and-white became a choice in order to represent ‘the past’, and specifically, an earlier era of the movies, which both filmmakers nostalgically evoked (Cf. Giannetti, 1982; Perkins, 1972).

However, the representation of ‘the past’ by the use of black-and-white scenes does not mean that black-and-white must always represent past actions. In A Man and a Woman (Claude Lelouch, 1966) black-and-white is used for the present scenes. But when the heroine talks about her dead husband, for instance, the images of her memories are in color. Color is here used for past sequences (Johnson, 1970).

Another use of color is when it is inserted, as a brief passage, into a black-and-white film. This originated at a time when color processes were not well developed and were very expensive. However, this kind of color system can be used, even today when ‘the norm’ is to shoot films entirely in color, to give a melodramatic or high effect. An introduction of a small passage of a colored image into a black-and-white film can amplify the value and the significance of a particular scene within the film (e.g. Rumble Fish, Francis Ford Coppola, 1983).

Conclusion

The cinema’s ability to represent reality has constituted a fundamental issue in the study of the cinema. The introduction of new techniques in the cinema such as color, sound, deep-focus and wide-screen, depending on the use that is made of them, is certainly able to add realism to the image. Nevertheless, they are not necessarily essential to allow the film image to be a closer representation of the world that exists in front of the camera.

It is common to think that as new developments – such as deep-focus, wider screen, etc. – are added to the cinema, the more ‘realist’ the cinema becomes. However, the transition to sound at the end of the 1920s, or color cinematography in the 1930s, for instance, were not perceived as having improved realism. Following this assumption, it is possible to conclude that improvements in technology and technological apparatuses were not the outstanding factor, but a condition, for the cinema’s images to approximate reality. Film can reach authenticity, preserving and exalting a sense of reality without color, sound or deep-focus. It is also important to qualify the extent to which ‘realism’ can explain all the elements and techniques that have been introduced in the cinema.

Clearly, the cinema can represent the images presented in real life. For some filmmakers this is what a camera and a film stock are for. But the tools and techniques used by them are part of ‘reality’ themselves, what makes ‘reality’ a form of expression. Seen in this light, the theory that posits the camera as an impartial instrument which captures the world in its ‘concrete reality’ is an inexact one. The realism achieved by the cinema is not a matter only of rolling the camera. It is a matter of how to present the reality captured by the camera, and how this reality will be perceived by the spectator.

Thus, the realism achieved by film images is not only the result of the introduction, improvement or deployment of techniques but is also, in fact, the consequence of the construction of images and the production of meanings which have been incorporated into conventions of film realism.

The introduction and use of color, thus, has generated contradictory discourses. Color was first perceived as a technical resource (the product of the development of new technologies) that was supposed to reveal more of reality, representing an improvement in realism. The argument put forward to substantiate its use was its ability to represent the ‘world we live in’. However, its use con-
Thinking about color and the ‘Reality Effect’ in the cinema

tridicted the early speculations. Very rarely has the use of color been justified on the grounds that it represents an addition to the cinema’s multiple signifying possibilities.

Many were against the use of color at first because of its poor technical ‘accuracy’ which could cause perceptual problems. Then, color assumed a new meaning. Color was used to emphasize the ‘unreal’. It was thus associated with some ‘unreal’ genres, like musicals, cartoons, adventures, etc. These genres opened a great range of possibilities for the use of color. Color revealed its potential for entertainment and decorative use, and more importantly, the aesthetic value of color became ‘visible’.

Color cinematography assumed a crucial role in the narrative itself. There was a phase when filmmakers realized color’s potential for dramatic and aesthetic purposes. They started to accept the idea that color could be used within realist narratives and could become an essential element to emphasize ‘drama’. Color was here useful in the way that it could help to describe a character, or to represent a mood or emotions, to mention just a few examples. It thus became an important element of the narrative.

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