

# 1 Visual form Generation: Optimizing Creativity Vis-À-Vis 2 Hurlburt's Model

3 Dr. Ebibagha Z. Sylvester<sup>1</sup>

4 <sup>1</sup> Niger Delta University

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## 7 **Abstract**

8 Creativity (the generation of new ideas and forms that provide valuable solution to a given  
9 problem often from an existing idea, knowledge and object) is indispensable in form  
10 generation. It determines to a large extent the aesthetic and functional products the artist  
11 and designer produce that immensely impact on our everyday lives. A key challenge facing the  
12 artist and designer is how to use understanding of the creative process (albeit, adocumented  
13 process with prevalent unawareness) to optimize creativity in the course of form generation.  
14 Therefore, this paper focuses on how to optimize creativity in the process of generating visual  
15 form using Hurlburt's model of the creative process. It employed qualitative research method,  
16 which utilized the Critical-Historical-Analytic examination and Content Analysis. The paper  
17 introduced the reader to the need for optimizing creativity in order to generate aesthetic and  
18 functional visual forms. Also, it thoroughly examined the creative process that affords visual  
19 forms. Furthermore, the paper showed how creativity was employed to explore, combine and  
20 transform past and existing forms into new aesthetic and functional products.

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22 **Index terms**— visual task resolution, problem-solving process, form-generation process, creative process,  
23 tangible product.

24 Visual form Generation: Optimizing Creativity Vis-À-Vis Hurlburt's Model Ebibagha Zifegha Sylvester  
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33 optimizing creativity in order to generate aesthetic and functional visual forms. Also, it thoroughly examined  
34 the creative process that affords visual forms. Furthermore, the paper showed how creativity was employed  
35 to explore, combine and transform past and existing forms into new aesthetic and functional products. And  
36 presented how creativity could be optimized in development of tangible form. The paper ended with the need for  
37 artists and designers to be conversant with the creative process and optima secreativity in the process of tangible  
38 product development.

39 keywords: visual task resolution, problem-solving process, form-generation process, creative process, tangible  
40 product.

## 41 **1 I. Introduction**

42 very day we encounter a variety of ever-increasing number of aesthetic and functional products that largely involves  
43 the artist and designer in its production process and immensely affect our lives. Examples include home (kitchen

## 2 II. THE HURLBURT'S MODEL OF THE CREATIVE PROCESS

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44 utensils, electronic gadget, textiles etc.), school (furniture, books, chalk, etc.), street (billboards, posters and  
45 signposts, etc.); and transport system (bicycle, motorcycle and cars), to mention a few. So, we ride in, sit on,  
46 look at, talk into, activate, operate, put on, take from, inject with and listen to products, which emanate from  
47 form generation hinged on creativity.

48 Creativity, involves the generation of new ideas and forms that provide valuable solution to a given problem,  
49 which is often derived from existing ideas, knowledge and objects. Sefertzi (2000) citing Boden (1998) states  
50 that creativity involves new combinations of familiar ideas (combinational), exploration of structured concepts  
51 (exploratory), and transformation of some dimension of the structure, so that new structures can be generated  
52 (transformational). This is indispensable in innovation, growth and development of objects. Sefertzi (2000),  
53 citing European Commission (1998) states that it is not possible to generate innovations without creativity. So,  
54 creativity is even "more important than technical skill" ??Hornby, 2015: 345). There fore, in the production and  
55 development of tangible visual form, creativity is of prime importance for the artist and designer.

56 However, the prevalent lack of understanding of the creative process is a key factor that militates against  
57 creativity. This is a real problem. Gilkey (2008), states that a large part of the problem is the air of mystery  
58 and mysticism around the creative process, whereby most people are ignorant of the existence of a documented  
59 process, and assume/reinforce the idea that some have creative potentials and others do not. The truth is that  
60 everybody has the potential to be creative and an understanding of the process would help to foster creativity  
61 (Sefertzi, 2000).

62 Therefore, this paper considers how to optimize creativity, using a documented thought process that guides  
63 the creative disposition of the artist/designer in the course of resolving visual tasks. This is necessary because a  
64 grasp of the creative process impact on the way knowledge is developed and translated in to tangible product.  
65 A veritable theoretical framework that lends itself to serve as a guide for this discussion is the Hurlburt's model  
66 of the creative process.

## 67 2 II. The Hurlburt's Model of the Creative Process

68 Hurlburt (1981) describes/prescribes the creative process based on Freud's topography of the human mind, which  
69 identified three levels of consciousness: conscious, preconscious, and unconscious ??Ejembi, 1989:259; ??llyn and  
70 Bacon, 2003:1). The Hurlburt's model (figure 1) shows the creative activities at the three levels of consciousness.  
71 These three levels of consciousness in the human mind are:

72 The Conscious (small); This is the portion of the human mind that holds what one is aware of. The experiences  
73 in this state of mind can be expressed in words and thought about in a logical manner. For (i) experiences in  
74 this state of mind can be expressed in words and thought about in a logical manner. For example, when the  
75 artist/designer acts on the basis of given information about the aims and target audience of the source and search  
76 for reference materials to have a better grasp of the design task in order to proffer a satisfactory solution, he/she  
77 does these at the conscious level.

78 The Preconscious (small-medium); this is the normal, ordinary memory, where, although things stored are  
79 not in the conscious, they can readily be accessed and brought to the conscious. So it is an interim between the  
80 conscious and the unconscious.

81 The Unconscious (enormous); this is the part of the mind that is not possible to access at will. It is a place  
82 where urges, feelings and ideas that are connected with anxiety, conflict, pain and all unpleasant experiences are  
83 repressed and dumped (Allyn and Bacon, 2003:1, quoting Freud). These repressed experiences exert influence on  
84 our actions and conscious awareness.

85 According to Allyn and Bacon (2003), materials of information pass easily back and forth between the conscious  
86 and preconscious, which can slip into the unconscious. Truly unconscious materials cannot be accessed voluntarily.  
87 So, creative activities, which are deliberate, are carried out in the conscious and preconscious levels, which are  
88 sometimes influenced by repressed experiences in the unconscious level of the mind. Hurlburt's model shows four  
89 of these activities as follows:

90 Intellectual is the first activity in the creative process.

91 As information enters the mind at the conscious level, activities to understand the information through  
92 critical/intelligent thinking are begun. This process to understand the information and contemplate about it  
93 constitutes the intellectual activity. For example, the creative process starts when the graphic encoder gets a  
94 request for media as he/she thinks about the design task or media request. about solution and meet user-needs.  
95 For example, as the graphic encoder thinks about the media request and gets more information, the search for,  
96 ideas from reference materials is embarked on. This(ii) (iii) (i) (i)

97 could greatly influence the graphic encoder in the encoding process.

98 Intuitive/emotional is the third activity in the creative process. Intuitive activity involves ideas based on  
99 feelings rather than on knowledge or facts. It influences the emotional activity, where opinions are strongly  
100 affected by ones feelings rather than thoughts established on proven ideas. The activities at this stage are  
101 influenced by information from the inductive activity through memory-the preconscious level of the mind in the  
102 same way as ideas/opinions formed at this stage could affect the information from memory. For example, the  
103 graphic encoder's information and knowledge gathered from reference materials to solve a given design problem  
104 could be influenced by a fresh idea, which might just cropped up, in a flash that is not based on known fact.  
105 ??jembi (1989:260) quoting ??urlburt (1981: 10), observes that, this is as a result of the bridge, which the

106 preconscious level provides between the clear deductive mind of the accessible conscious and the mysterious  
107 unconscious. 'This interim level is probably the origin of what we call intuition, which is the quick and ready  
108 insight that produces ideas without the apparent involvement of our conscious thoughts'. Also, known facts might  
109 not look right and could be modified in a way that is greatly governed by ones feelings. Emotional/Conscious  
110 level is the fourth activity in the creative process. It involves the creative processing of information based on  
111 facts, knowledge, and feelings. All the other activities: thinking about the information in order to understand it,  
112 searching for existing knowledge in order to solve a given design tasks, and using ideas that seem right based on  
113 feelings, come together in the conscious level. These are very important activities the artist/designer engages in  
114 when generating visual form.

115 The Hurlburt's model shows the creative process in the human mind in a way, which presents the mind as if it  
116 were an automatic structure, programmed to allow the creative development of information to follow a specific  
117 pattern of activities. But the human mind do not always work this way in the creative use of information. As  
118 information enters the conscious level of the mind, even before the inductive activity, there could be a leap of  
119 insight-a sudden flash of solution from within. This could be stimulated by external factors, e.g. the pressure of  
120 short deadline/urgency that often does not allow adequate time to understand and make references to information  
121 yielding materials. Moreover, Furthermore, the model did not take into account the useful role of dream in the  
122 creative process. Many creative works and activities are based on the influence of the unconscious level through  
123 dreams. For example, Surrealism -reflected dreams, repressed and painful thoughts and experiences dumped in  
124 the unconscious. The usefulness of dreams in the creative process is stressed when ??lover (1990:9) states that:  
125 "Dream-work (primary process) is somehow able to translate what is unconscious, repressed and unacceptable  
126 into an artistic construction". So, the creative process in form generation is influenced by activities in all the  
127 three levels of consciousness of the mind.

128 Nevertheless, the model is useful. It shows that information need be properly understood through gathering  
129 of reference materials in order to offer creative solutions to design tasks. Also, it reveals that intellectual,  
130 inductive, emotional and conscious activities are indispensable to generate form. And it shows that the leap of  
131 insight from the unconscious level, impact on how the artist/designer thinks. This is important to the artist and  
132 designer in form generation.

### 133 **3 III. Creating new Product from Existing form**

134 The aforementioned model shows that the creative process of the artist/designer begins with information that  
135 enters the mind. This is influenced by internal and external activities in the course of translating the information  
136 into tangible new products. How these activities were harnessed to provide the necessary information and  
137 knowledge to create new products through exploration, combination, and transformation of existing structures  
138 are exemplified respectively. First, the Giralda, an ancient architectural form in Seville, Africa was adopted  
139 and adapted to create new visual templates in America and Europe using exploratory strategy of creativity.  
140 Second, masks, sculptural forms from Congo in Africa were adopted and adapted to create new templates of  
141 painting in America and Europe through combinational strategy of creativity. And third, forms from natural  
142 objects and geometrical shapes were adopted and adapted to generate new aesthetic and functional forms, using  
143 transformational creativity.

### 144 **4 a) Exploration of Features in Existing Form**

145 The adoption and adaptation of the Giralda (a minaret in Seville, Africa built from 1184-1198) in America, is a  
146 classic example of exploratory creativity. The Madison Square Garden, which is the new form generated from the  
147 exploration of the features of the Volume XVI Issue VI Version I a creative idea could suddenly emanate from  
148 an object which was not deliberately sought for, and form the needed basis on which to effectively transform an  
149 information into a desired product that meets user needs. precedence (Giralda), was a success (see plate 1). The  
150 Madison Garden Tower was so successful that it became "a template for grandiose corporate towers all over the  
151 United States" ??Werner, 2008, pp. 21).

### 152 **5 (ii) (iii)**

153 The creative process of the Madison Garden Tower begins with thinking about the design task (intellectual  
154 activities) and gathering of relevant reference materials(inductive activities).

155 According to Werner (2008, pp. 21), the designer, architect Stanford White (1853-1906), may have read and  
156 been inspired by an 1885 issue of the leading professional magazine "American Architect". It featured floor plans,  
157 elevations and illustrations of the Giralda that provided the needed information, knowledge and motivation to  
158 resolve the design uncertainties with salutary effect.

159 The above shows that reference materials and existing forms are veritable sources of inspiration salient for  
160 creativity. It is necessary for the definition and analysis of a given felt need to be resolved. This inspiration  
161 phase of the creative process, is where research and many ideas are generated and could be improved upon by  
162 experimenting with association and movement; analogy, critical questioning, searching oblique sources, trawling;  
163 brainstorming, backtracking, randomization, shifting perspectives, provocations, changing focus, etc. (Petty,1997,  
164 Para 4). Also, this stage is where preliminary work such as reading, writing or revising earlier work is involved,

165 (Gilkey, 2008, Para 6). Gilkey (2008), states that inspiration is a necessary step to Incubation, a stage of  
166 percolating an idea that the outcome is not certainly known in terms of when it is going to come out. A stage  
167 of break following deep contemplation that brings fresh perspectives and insights. It involves the making of new  
168 connections, separating unnecessary ideas and searching for other ideas. This leads to the stage of Illumination,  
169 which is the "Eureka" moment whereby brilliant ideas crop up and flashes through the mind, a burst of insight,  
170 which need be recorded or written down at the moment; and then implemented.

171 Preparation, Incubation, Illumination and Implementation stages, constitute the intellectual, inductive,  
172 intuitive and emotional activities in the mind. These often begin with the definition, analysis, ideation, selection,  
173 implementation, and evaluation of design task, ideas and information (Walls chlaeger and Busic-Snyder, 1992,  
174 pp 11).

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#### 176 8 ( A )

177 So, the task of building Madison Square Garden started with thinking about the design task after clarification  
178 has been made with the requesting Source. This was followed by gathering of information through reference  
179 materials (for example, the American Architect Magazine). Then, intellectual activities were consciously carried  
180 out to understanding the information provided in the drawn elevations of the Giralda. The features were explored  
181 using knowledge (technical, procedural, practical), expertise, and critical thinking strategies (discussed later in  
182 optimising creativity in product development).

183 So, using facts, knowledge and feelings, the architect, White Stanford, employed selectivity, exaggeration and  
184 shifting perspective techniques to adapt the information derived from the features of the Giralda, to create Madison  
185 Square Garden. This could be seen in the length, space and pattern modifications depicted.

### 186 7 b) Combination of Features from Existing Form

187 The adoption and adaptation of the features of African aesthetics in masks from Congo to create new templates  
188 of painting in America and Europe, is a superb example of combinational creativity. Like the design of the  
189 Madison Garden Tower mentioned, the Congolese masks were adopted and adapted to create new forms through  
190 a combination of and creative thinking that propelled the adoption and adaptation of sophisticated abstraction,  
191 high stylization, reverse application of concave and convex lines, and infusion of forms with spirit (Meldrum,  
192 2014).

### 193 8 c) Transformation of Features of Existing Form

194 Form from a natural object or geometrical shape often serves as veritable source to generate new aesthetic  
195 and functional forms through transformational creativity. This involves selectivity, association, exaggeration  
196 and morphology techniques. Wallshlaeger and Busic-Snyder (1992, pp. 127) lucidly illustrated this in the  
197 transformation of shapes (as shown in plate IV a, b, c). In the illustration (IV a), a rectangular plane was  
198 transformed into a tape dispenser by gradual modification of selected points of the rectangle. The ideas,  
199 knowledge, motivation and other necessary variables considered during the creative process to actualize the  
200 generation of tangible products are discussed later (see optimizing creativity). The illustration (IV b) is the  
201 transformation of a summer squash into a flamingo. This modification of shape was based on association of the  
202 transformed shape with an existing natural form -a flamingo bird. And the illustration (IV c) is the transformation  
203 of a shape from natural form, an insect into a utility product -a pair of scissors, through morphology and  
204 exaggeration techniques. The illustration of how information derived from existing geometric and natural forms  
205 was creatively used to generate new forms (Tape dispenser, Flamingo, and Pair of scissors) illuminates the  
206 effective use of existing forms to engender material innovation, growth, development and success.

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208 The need to grasp and hinge the generation of new forms on existing ones cannot be overemphasised. It serves  
209 a heuristic function and a fertile source of inspiration and knowledge. This is expressed when Werner (2006, pp.  
210 21) citing Warren (1893) states:

211 IV.

### 212 10 Optimising Creativity in form Generation

213 From the model and examples of creativity discussed, the centrality of the use of necessary information is brought  
214 to the fore. To achieve an optimum level of creativity, the interest, satisfaction and challenge in the use of  
215 information; the ability to think, explore, combine, and transform information; and the time, experience and  
216 expertise to harness all relevant information to resolve a problem satisfactorily are crucial in a creative endeavor.  
217 According to Adams (2005, pp. 4), knowledge, creative thinking and motivation are the essential components of  
218 creativity. Therefore, a tactical and strategic promotion of these components equate optimizing it.

219 Knowledge is fundamental to creativity. It is all the necessary information harnessed to solve a given task.  
220 A deep understanding of relevant information arising from experience and long term on few areas of expertise

221 and a wide understanding across many disciplines often provide the needed knowledge (technical, procedural and  
222 practical) that elevates creativity to a crescendo. ??dams (2005, pp. 4), states that "we must balance between  
223 depth and breadth of knowledge of knowledge in order to maximize our creative potentials". So, adequate  
224 knowledge from collaborative efforts and interdisciplinary study foster creativity.

225 Acquisition of sufficient and necessary knowledge for creativity enhancement takes time. This requires  
226 definition of the body of information relevant to a given task, analysis of the information to be sort, ideas that are  
227 salient to solving the task from the available amount of information, selection of plausible ideas, implementation  
228 and evaluation of ideas and information that would meet desired goal. According to Adams (2005, pp. 5), the  
229 amount of time spent in a creative domain is directly linked to the output. Therefore, a reasonable amount of  
230 time is needed to be spent on knowledge acquisition and appropriation in order to maximize creative effort.

231 Equally important to employing creative impetus at apex level is a flexible and imaginative thinking skill.  
232 This is critical to exploring, combining and transforming the feature, process, and system of existing forms into  
233 new product. This could be developed through many techniques. A key technique is analytical, which employs  
234 interrogative strategies. These idea discovery tactics include "Questioning": Put to other Uses? Adapt?

235 Volume XVI Issue VI Version I Plate II: (a)Shape transformation from a rectangular plane to a tape dispenser,  
236 (b) from a summer squash to a flamingo and (c) from insect to a pair of scissors (Wallshlaeger and Busic-  
237 Snyder, 1992) Reverse? Combine? "5W and H": Who, Where, What, When and How; "Pentad": Act, Agent,  
238 Agency, Scene and Purpose; "Shifting Perspectives": Contrast, Variation, Distribution, Features, Process and  
239 System ??Winterowd, 1981; ??erfertzi,2000;Adams, 2005; ??nd Lucas,2010). This kind of questions have better  
240 application for specific analytical purposes and stimulate different ways of organizing known information and  
241 help approach problems from different angles.

242 In addition to the above analytical techniques, there exist the intuitive, divergent and convergent tactics of  
243 generating creative ideas. According to Adams (2005), the intuitive techniques such as the "Wishful Thinking"  
244 gives a whole answer at a time that is based on ideal possibilities. This aims at providing less structured  
245 solution to ill-defined questions and tends to skip steps in a sequence. Moreover, divergent and convergent  
246 thinking techniques are important to creating ideas. While divergent thinking is the generation and free flow of  
247 ideas towards many alternatives, convergent thinking is the filtering and focus on ideas to generate acceptable  
248 solutions ??Serfertzi, 2000 pp.3; ??uoting Hall, 1996). The complementary role of divergent and convergent  
249 thinking in creative effort makes it an interesting mix. Divergence helps forcing towards many alternatives and  
250 possible options before convergence on an appropriate solution. These techniques help to developing intelligence  
251 pivotal for insightful thinking beneficial to optimizing creativity.

252 According to Adams (2005, pp. 6; citing Sternberg), insightful thinking helpssynthetic, analytic and  
253 practical intelligence. It fosters synthetic intelligence through selective encoding(distinguishing relevant from  
254 irrelevant information), selective combination(combining bits of relevant information in new ways) and selective  
255 comparison(relating new information to old ones in new ways). Also, insightful thinking helps analytic intelligence  
256 employed in evaluation and improvement of ideas. And it helps in practical intelligence that enhance the ability  
257 to apply intellectual skills in everyday context.

258 Motivation to forge ahead in the course of a creative effort is a key factor in maximizing ones creativity.  
259 Without the dogged determination mustered from within to cope with the challenges confronted in the creation  
260 process. Achieving desired creative result requires sufficient interest and motivation in order to bring adequate  
261 knowledge and creative thinking to fruition. ??dams (2005, pp. 8; quoting Nakamura and Csikzentmihaly,  
262 pp. 258) states that: "Even more than particular cognitive abilities, a set of motivational attributes: childlike  
263 curiosity, intrinsic interest, perseverance bordering on obsession?seem to set individuals who change the culture  
264 apart from the rest of humankind". available or possible options and conventional order. This kind of innate  
265 childlike exploratory and experimental characteristics is more enduring when compared with extrinsic motivation.  
266 Adams (2005, pp. 8; quoting Amabile, pp.78) states that "people will be most creative when they feel motivated  
267 primarily by the interest, satisfaction and challenge of the work itself -and not by external pressure [i.e. extrinsic  
268 motivation]".

269 V.

## 270 11 Conclusion

271 Creativity is pivotal for form generation, which critically impactson our everyday lives. It involves the utilization  
272 of information to generate new ideas and products through exploration, combination and transformation of  
273 usually existing forms. Understanding the process of creativity is needful to develop creative solutions with  
274 salutary effects.

275 Optimizing creativity is crucial for product development. Towards this end, intrinsic motivation from childlike  
276 curiosity, flexible and imaginative thinking arising from analytical, intuitive, divergent and convergent strategies  
277 are in dispensable. Likewise, indepth and broad knowledge from collaboration and interdisciplinary study, and  
278 adequate time, experience and expertise on creative enterprise are essential.

279 Artists, designers and other stakeholders engaged in form generation should be conversant with the creative



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Figure 1: Figure 1 :

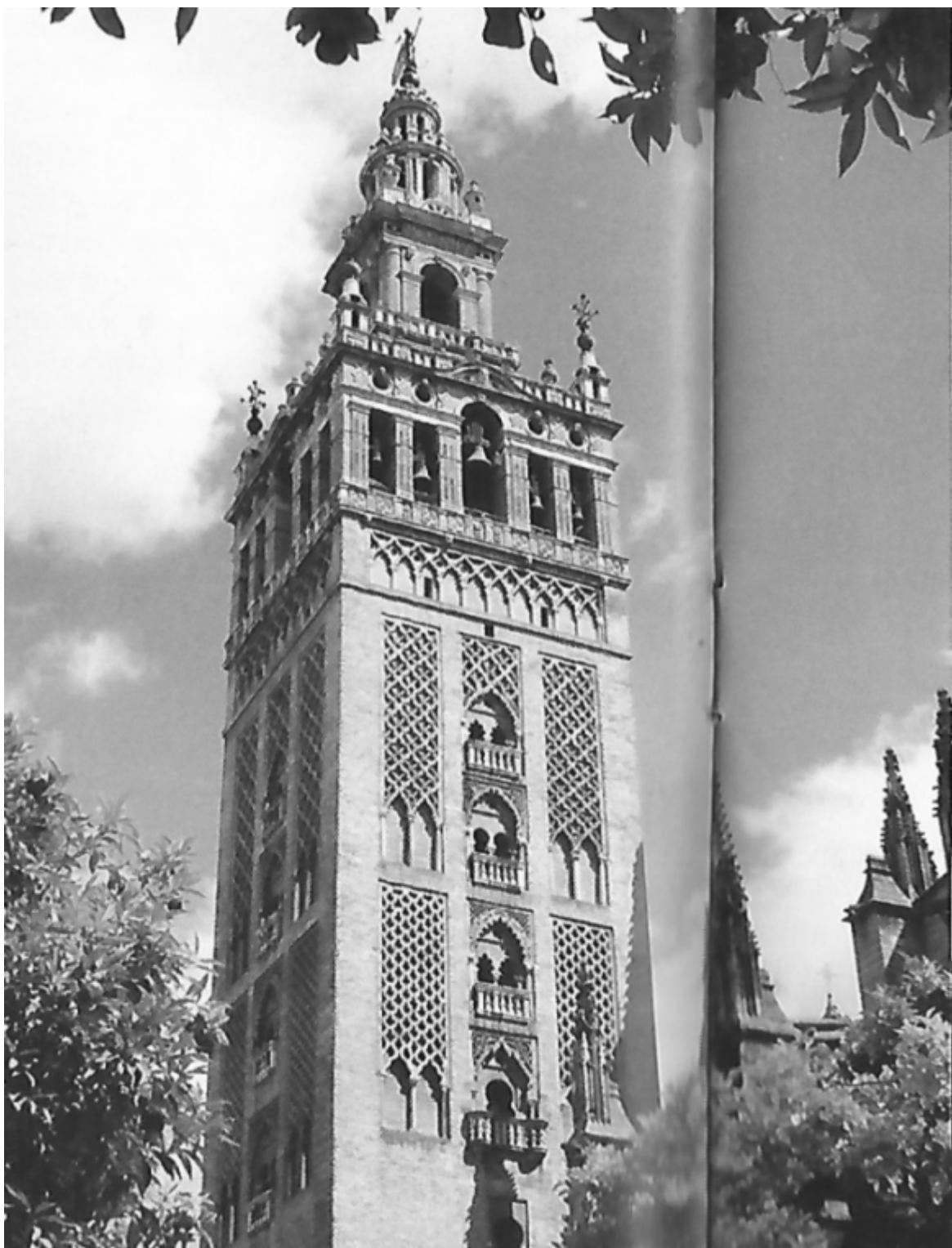


Figure 2:



Figure 3:



Figure 4:



Figure 5:

280 process and strategies to optimize creativity. This would facilitate effective generation of pleasing visual forms  
281 for aesthetic and functional purposes. <sup>1 2</sup>

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282 [Harcourt Brace Jovanovic] , Harcourt Brace Jovanovic . Inc. New York, U.S.A..

283 [Wallschlaeger and Busic-Snyder ()] *Basic Visual Concepts and Principles for Artists, Architects and Designers*,  
284 C Wallschlaeger , C Busic-Snyder . 1992. Dubuque, Iowa, U.S.A: Wm. Brown Publishers.

285 [Gilkey ()] *Demystifying the Creative Process. Productive Flourishing*, C Gilkey . [www.productiveflo.com](http://www.productiveflo.com) 2008.

286 [Glover ()] N Glover . <http://humannature.com/free-associations/glover/chap1.html>.

287 Retrieved:3/15/2007 *Psychoanalytic Aesthetics: The British School*, 1990.

288 [Ejembí ()] *Graphic Communication in Development Programmes: Models for Communicators*, E A Ejembí  
289 . 1989. Department of Typography and Graphic Communication, University of Reading, England (An  
290 Unpublished Ph.D. Thesis)

291 [Hornby ()] A S Hornby . *Oxford Advanced Learner's Dictionary*, (Oxford, United Kingdom) 2015. Oxford  
292 University Press.

293 [Meldrum ()] *How Much Did Picasso's Painting Borrow from African Art?* Guardian News and Media Limited,  
294 A Meldrum . [www.theguardian.com](http://www.theguardian.com).Retrieved-d:22/6/2014 2014.

295 [Petty ()] *How to be Better at Creativity*.[www.greenfields.u-net](http://www.greenfields.u-net), G Petty . 01/03/2014. 1997.

296 [Werner ()] 'In East Meets West in Venice'. L Werner . *Aramco Services Company* 2008. 59 (2) p. . (Third  
297 Generation)

298 [Sefertzi ()] E Sefertzi . *Innoregio: Dissemination of Innovation and Knowledge Management Techniques.*  
299 *Creativity Report. European Commission funded Innoregio Project*, 2000.

300 [Lucas ()] *The Art of Public Speaking*. The McGraw Hill Group of Companies Inc, E S Lucas . 2007. New York,  
301 USA.

302 [Hurlburt ()] *The Design Concept-A Guide to Effective Graphic Communication*, A Hurlburt . 1981. New York,  
303 U.S.A: Watson-Guptill Publications.

304 [Adams (2005)] 'The Sources of Innovation and Creativity'. K Adams . *National Center on Education and the*  
305 *Economy (NCEE)* 2005. July, 2005. (Research Summary and Final Report)

306 [ Allyn ()] 'Topography of Mind: Freud's Iceberg Model for Unconscious'. Allyn , Bacon . <http://www.wilderdom.com/personality/L8-3> *Preconscious and Conscious*, 2003. 2003. p. . (Typography  
307 MindIceberg. ht -ml. Last updated: 22 Sept)

308 [Winterowd ()] W R Winterowd . *The Contemporary Writer*, 1991.