

## **FEATURES INTERIOR DESIGN OFFICES**

*Annotation:* The article examines the laws and the formation of office space in the current conditions and investigate the application of the latest technical tools aesthetics to improve the quality of design solutions.

*Keywords:* office interior aesthetics, generation units.

**Problem statement:** In today's time, there are many different approaches to solving of office space. The application of a variety of design styles and national perspectives on the problem. In modern terms an office space Ukrainian cities must be solved within a given space. Understanding the underlying laws of psychological interaction between participants of the workflow in the office to put forward a set of rules allowing the formation of the office space that match the mentality of which he owned and set up appropriate working environment in conjunction workers of the company. This is achieved by spatial color and style formation areas. The office is built with an understanding of internal processes Maximize coworkers, create a true social climate and therefore have a positive effect on the profitability of the company. At the stage of formation of the concept of office may combine mathematical theory of aesthetic forms, colors, mathematical complexity and distribution of light from the scheme of the problem to create theoretical models create an interior that will build on the foundations suitable for the task of design styles and means of the creation of elements for office space facilitate the creation of interior and its possible automation in the future.

**Analysis of recent research and publications.** Study compositional properties in the area studied in detail Yakovlev NI [4] Also, the work draws on research in information and graphic art from U.Boumena, O.Ya.Bodnar, R.Arnheim. [1.2 3] Also, the paper uses the method of separation graphics Quadtree created R.Finkilem and John L. Bentley [5].

**The wording of Article goals.** Identify trends in the formation of office space, detection methods for the study of formation and properties of composite buildings with a theoretical model.

**The main part.** There are two main approaches to address the office space, this desk - Corridor System and Open Space (open space). For desk corridor system was designed all public schools in the space of the CIS. This type of organization is most suitable for companies with a linear functional organization. The alternative - OpenSpeys embodies the idea of "human" relationships in the office. This organizational scheme is used in a large open room, which denied the walls. Separation of office space into functional zones occurs matched to the structure of the company for this purpose, fixed or portable partitions. In this type of organization has a number of advantages in terms of governance and management. Significantly expanding beyond the internal organization and communication, space saving due to the lack of extra doors and walls. There is also a possible hybrid version of the organization. It extends right to the combination of classic and modern interior concept.

In addition to the basic approach to it is also possible to use the European and American type design workspace. The European approach is based on the concept of Open Space, but it features a free, smooth mix of styles in shaping the interior design office. The European approach is divided into subtypes based on the experiences of individual countries, English, Scandinavian, German and others. Open space, dynamic, almost aggressive moves in - the main features inherent in the American approach. In such office immediately felt superiority of his leadership, his business acumen and toughness. Is not key pronounced style of interior design office space that is widely used around the world and using the above concepts. Japanese style - a simple furniture, a set definition of asymmetry, smooth surface and repetition of elements. The Japanese love the light and space as office interior is done in bright colors. In the arrangement of working areas adopted the principle of a strict hierarchy. All zones are divided according to the structure of the company and his position in it. Regular employees are located in a large room that has no partitions. Head of sitting opposite. So it goes in the classroom. Chief sees his subordinates, and has full control over their activities.

Corporate identity in the organization office space. Specificity of the company must find its reflection in the internal organization.

In terms of Ukrainian Space Open Space style fully used only in the newspaper and magazines. Most companies prefer to execute the jobs according to the long-established traditional cabinet system. Cabinet system is a consequence of the Soviet era and is the most popular in the post. Long corridor with several doors, which located offices in turn have a separate room for managers and supervisors. The hierarchy is strictly maintained - is the chief and ordinary employees. Respect for hierarchy is fully reflected in the organization of office space - Head office is spacious and unlike the better designed. Favourite style of Ukrainian businessmen classic, sometimes diluted with new design refinements. Office in Ukrainian detailed, expensive furnished, luxurious, sometimes excessively. The situation is massive, solid. But that does not stop him to be ergonomic. The walls are often decorated with pictures, tables and cabinets - accessories. Managers of companies seeking capital to keep up with modern times, and prefer the European approach to interior office. Office space is usually quite spacious, bright, do not accommodate extra items, furnishings light and mobile, multifunctional furniture, welcomed a large number of metal and glass. Partitions are low, again to create community in the team, and the formation of personal space for each employee main objective the design office technical methods aesthetics is improving the conditions of human life, welfare, reduce development costs and increase the prestige of the project through the use of thoughtful solutions and psychological understanding of internal communications. This is achieved through: There are several styles that are suitable for use in such facilities in Ukrainian conditions. This style: Loft, Contemporary, Techno, Hitech.

1. Loft, a style that originated in the restructuring of factories for residential purposes. Characterized by great space and light. Style fit for reorganization

architectural buildings shaped according to their functions, and those that have no architectural value:

2. Contemporary, style mass production which is based vyvirenist are clean and contemporary elements. Suitable for reorganization architectural buildings shaped according to destination, and buildings of high architectural artistic value.

3. Techno, a style which is caused by the use of technological elements and well-ordered chaos in the interior. Rarely used for living quarters. Suitable for the reconstruction of areas that have no architectural value and those whose form is dictated by the purpose, more versatile than style loft:

4. Hitech, which details the style of the interior elements engineering equipment combining bright light and space. Suitable for reconstruction:

Choosing a style, you can use the theoretical model (Table 1). The model allows us to process through the sequence of input data on the structure of the interior space and get aesthetically attractive option harmonious planning of the distribution of color schemes, indicate the main interior nodes. This will reduce the cost of designing a complex design is needed in the reconstruction.

*Table 1*

### Styles and psychological impact

Il Art	Oc er characteristic of	Ps yholohichnyy impact
Ma nhetten	sa vorist, business relationships, exclusion familiarity, unnecessary, Open space	al mosfera Mr. Yisheng, stable mind, depression
Leeb.Evropa	Bi dokremenist, space and light, Open space	Bi dchuttya increased extutrishnoyi freedom
Resetandynavskyy	St. itli furniture made of natural wood, made of laminate, metal	Tue idchuttya quality and artistic effect
IT aliyskyy	Le hkist and refinement	In innovation, style, ease of
No metskyy	Pr odumanist and pedantry, and flowers innter'yeri.	With 'yednanist collective problem solving
An hliyskyy	Be bark area, expensive furniture	Cn okiy convenience empowered ynist
Yap onskyy	This simple furniture, a set definition equa etriyi, smooth surface and repetition of elements	Fu nktsionalnistyu and ha rmoniyeyu.

Creating an objective model has its difficulties by Yakovlev basic theoretical principles models of this type have significant drawbacks. The mathematical properties of the models given in the literature are described formulas are built from

their own aesthetic preferences author's lack of research and literature [4]. To solve this problem based formulas will be used laws of distribution of numbers in nature, as the study of the geometric shape methods that have been developed for the analysis of images in computer technology. Also, the results of recent studies of geometry and color perception, which were held in the Amsterdam Free University was established the fact that decisions on aesthetic excellence or perfection is not an object of perception occurs primarily at lower cognitive perception systems in humans. [5] It opens the possibility of creating a practical program objective assessment of perfection - imperfection aesthetic properties of the object in the future. This is also confirmed by the phenomena which is a prime example of "irradiation", a phenomenon in which the direction of the image is correlated with arousal points optic nerve of the eye. [4]

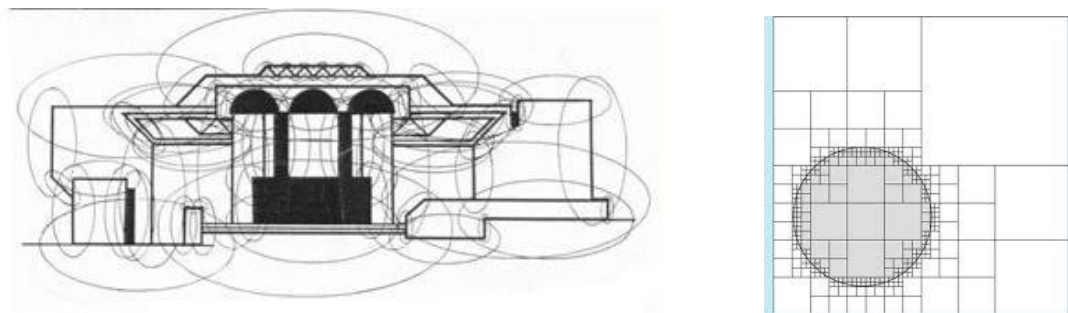
Table 2

**Type and requirements for interior**

<b>You n company</b>	<b>Ps yholohichni requirements for office</b>	<b>Article ylove / functional solution</b>
Ba nk	co lidnu, stable reputation, traditional, unity with the team.	Cl asychni furniture anhiyskyy style, Open space
Ure ydychna firm	Nservatyvnt Co., respectability, trust hierarchy.	Ka binetna system, classic style
What holohichna firm	Su timeliness, teamwork, solving unusual problems.	Ha ytek, Open Space, modern office style
You robnystvo or sell consumer products.	For pamyatovuvanist, vpiznavayemist, image, democratic	Yas stole style, accessories, Open space, Japanese or European approach.

One proof of this is the fact that the increase of similar items in the composition increases their visual contrast. The practical application of this principle is the use of subordination that lets you find a harmonious unity of the elements of the composition through the rational choice of the distance between them.

Alternatively, a graphical analysis of the algorithm structure is Quadtree (Fig.1.).



Rice. 1 subordination of elements of the facade and image analysis algorithm Quadtree

This algorithm is an information structure hilchastoho type each of the points which has only four continue. This method is used for the distribution and analysis of two-dimensional space through recursive division of it into squares and regions. This algorithm has many applications and subspecies. Applying the algorithm to the plane of the plan of the interior may get a clear picture of the distribution and the workload of the interior space. A mathematical model of transformation of the interior allows you to apply the following scheme for the rapid creation based on structural and compositional COLOURFULLY a balanced interior. This model can be applied automatically based on computer drawings of the building. Separately, in nature there is a phenomenon which is called Benford's law. The first numbers are much more likely than all others. Value decomposition of these numbers is one example of a harmonious distribution in nature. Using the ratio of numbers for harmonic separation plane into zones and rooms evokes a feeling of harmony in space. The distribution of color scheme starting from the premise occurs color palette chosen style of placing colored accents in some of the previously selected key points

- a. The color scheme of the interior of selected statistical playlist chosen style, with a possible error in the colors of elements that remain outside the redevelopment
- b. Distribution colored shades around the room is based on gradation and coat melted.
- c. Accent shades are selected according to the color range of techniques

### **Conclusions.**

Understanding the psychological foundations of various approaches to designing office space allows you to choose the appropriate structural and stylistic solutions that will create the necessary ecosystem and correctly display the image. The level of theoretical research in geometrically - the basics of composition and aesthetics of computer graphics analysis tools come to the point where the combination of these two areas will create a tool for objective assessment of the aesthetic qualities of the interior and generating optimum form. The use of these tools in combination with the optimal choice of style design for the reconstruction of abandoned buildings will increase the attractiveness of these projects and as a consequence the social ecological situation in the city.

### **Prospects for further research.**

Will the influence of office space for staff, a theory of the influence of individual elements of space to employees. The current model will be improved by the inclusion of the means of lighting and rendering tools three-dimensional assessment of the situation. Also planned to expand the scientific basis of practical implementation of the described methods and integrating them in a modern computer systems design.

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### Аннотация

*О.Новиков. Особенности дизайна интерьеров офисных помещений.*

*В статье исследован процесс и законы формирования офисного пространства в современных условиях, а также практика применения новых средств технической эстетики для улучшения качества дизайн-решения.*

Ключевые слова: *офис, дизайн, эстетика, генерация, интерьер.*

### Анотація

*О.Новіков. Особливості дизайну інтер'єрів офісних приміщень.*

*У статті досліджено процес і закони формування офісного пространства в сучасних умовах, а також практика застосування нових засобів технічної естетики для поліпшення якості дизайн-рішення.*

Ключові слова: *офіс, дизайн, естетика, генерація, інтер'єр.*