• *dynamic architecture*. An example of which in nature is the feature of plants to respond to various changes: humidity, light, temperature. An example of this form is the architectural structure of the sports stadium on Prospekt Mira in Moscow.

Conclusion. Thus, it can be concluded that in modern architectural design, one of the main principles in the work of architects is the creation of "living architecture", where the building and structure is a "living organism". The most common buildings on the example of the use of shell type, mesh, lattice and ribbed structures. Here bionics is "content" with the fact that it does not use natural organisms directly, but only the principles of their "construction".

The process of shaping architectural bionics is both a fragmentation of the integrity of the object to the smallest elements of its structure, and, conversely, from the smallest particles, the possibility of creating a form for the construction of a new object of architecture.

Geometric forms, borrowed from nature, are the material for creating something new. From the taken natural forms, the architect is able to create a huge number of different combinations [4]. Each object, building has its own spatial structure and shape. And of course each object of modern architecture has its own structure and rhythmic organization. Today, bionics as a science can predict a great future. Here the scientists of tomorrow open a wide field for research in the field of architectural forms.

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FORMATION OF GAME COMPLEXES FOR CHILDREN IN PUBLIC SPACES

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A shopping complex is a place in which a person comes regularly and there may be a lot of time in his space. The most convenient day to visit the shopping center is a day off when parents spend time with their children and can go shopping together. The organization of a child's play area in the interior of a supermarket will help solve the problem of a child's occupation at a time when adults choose goods. Designing facilities for children's use, especially in an environment of active social processes, places high demands on design. Therefore, this topic is subject to in-depth research. The purpose of the study is to identify the features of the formation of game complexes for children in public buildings by the example of large shopping centers.

Material and methods. The research materials are electronic resources in the form of articles, photographs on this topic. Research methods are: descriptive-analytical, comparative.

Findings and their discussion. Public buildings and structures - environmental facilities and systems designed for administrative, business and cultural-educational activities. The typology of public buildings includes complexes of various purposes: stadiums, museums, theaters, shopping and business centers, administrative buildings, institutes, etc.

The growth of public welfare, innovations in architecture, technology and design, created a platform for the creation of new objects of a social scale. Most of the new forms appeared as a combination of the above types of public buildings (amusement park, supermarket, university research complexes, etc.). Public buildings represent an entire ecosystem, and each component is necessary and important for a holistic picture of this object. The pace of development of all industries surrounding us is growing every year at a double pace, and the life of society and each individual is passing at a very fast pace, which requires the creation of a single place in which the main shopping and entertainment facilities will be assembled.



Figure 1. Contrasting color spots in the children's play complex of the shopping center.

A shopping center is a place for crowds of people with different interests and tastes. To create this object, architectural and design methods are used to create a comfortable environment for all people.

Consider the components of creating a children's zone in a shopping center. For the design of any room you need to understand for whom this object is being created. In this case, a project for children is created. The proper design of a children's zone in shopping malls for games is an important and difficult task. There are several components that you pay special attention to to create the perfect place for your child's leisure.

The family hangout area in shopping centers should be designed in accordance with ergonomic and environmental standards and taking into account modern aesthetics. They include the use

of environmentally friendly, fire-resistant materials, the compliance of design solutions with age criteria, features and individual characteristics of the consumer in combination with an expressive artistic image. The best option for shopping centers are universal children's sports and playgrounds, divided into specific sports and gaming areas. This is not mandatory in the creation of children's complexes, however, sports and playgrounds are the most comfortable and suitable for most children. When forming the gaming zone, it is necessary to take into account global trends or the mentality of the country. Modern trends tend to minimalism in all manifestations of public life. This is manifested in the choice of color, the design of the playground itself.

A shopping center involves a large number of people, which makes it necessary to review the playground. It should be as open as possible. A reliable and safe design is the basis of the design of any environment, but the children's area is a place of increased danger. The designer must calculate every step and take into account all the nuances of this site.

Do not underestimate the possibilities of color. The color palette can be varied, depending on the conditions of creation. The design of the children's play area can borrow the color scheme of the interior of the shopping complex, and can contrast with it if it does not violate the general harmony of space.

The opinion that children need to make a rich and contrasting environment is outdated. The best solution is to create soft, calm colors with contrasting elements in the construction of the site or to create a line of color with the movement if the site involves active movement.

The play area for children should be a compositionally integrated system within itself, and at the same time be in harmony with the overall style of the interior of the shopping center, be part of a connected system of objects, and its visual characteristics will strengthen its unity.

Conclusion. During the study, examples of children's game complexes in the interior of the shopping center were examined and the main features of their formation were identified. The design concept of the play area is formed taking into account the psychological characteristics of the child, on the principles of safety, ergonomics and environmental friendliness. The aesthetic qualities of the children's environment are also important, as they help to develop an artistic taste in a child at an early age.

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