5. Segmented / mesh models.

Segmented models (Figure 1c) are used to identify and classify objects in 3D scenes. This form of 3D data representation is based on the division of a volumetric object into smaller components.

6. Functions models / CAD.

The main idea of a solid model is the use of a functional description (Figure 1d) of surfaces and a functional description of the physical properties of objects. Solid/functional models are used in a variety of industries, including engineering, manufacturing, medicine, and architecture.
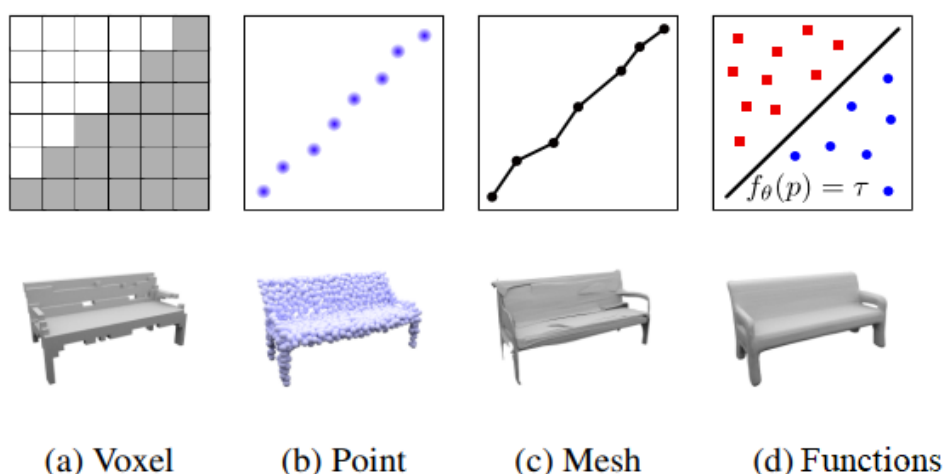

(a) Voxel   (b) Point   (c) Mesh   (d) Functions

Figure 1 – Types of representation of 3D data

In conclusion, the representation of 3D objects for machine learning is an important component in various fields, such as medicine, games industry, architecture, etc. Correct representation of 3D data helps to improve the quality and accuracy of object analysis, and also increases the efficiency of computer algorithms.

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WEBSITE DEVELOPMENT. WEBSTORM INTEGRATED DEVELOPMENT ENVIRONMENT

Now there are many different ways and means to create your website. All these methods can be divided into three categories:

− development in the designer of the website;

– development on CMS;

– development of the website by writing program code.

Development of the website by writing program code allows you to create projects of any complexity and according to any wishes of the client. However, this method requires knowledge not only of the programming languages themselves, but also an understanding of the architecture, business processes of the client, and much more.

A good code editor or integrated development environment (IDE) can make writing code much easier. When developing a website, you should pay attention to such an integrated development environment as WebStorm. Because it's a full featured IDE for JavaScript. WebStorm was created by JetBrains and is available for Windows, Linux and macOS.

It supports JavaScript frameworks such as Node.js, Angular.js, and React. Its features include GitHub integration, smart auto-completion, and code refactoring for all project files. WebStorm allows you to debug node scripts and run tests on the built-in server. You can also run and debug npm scripts. And all this does not require any plugins.

However, plugins are available for some more specific functionality not built into the IDE itself. But in most cases, everything that you might need when developing websites is already in the IDE.

WebStorm is configured by default to autosave files when working with them. WebStorm also has a built-in version control system that makes a commit every time a file is saved, which allows you to control undone changes. It is purely internal, completely separate from the Git version control system. Files are saved at least when the code window is out of focus.

WebStorm is a paid IDE, but there is a free license for students and non-commercial open source projects.

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PROMOTION OF THE BEAUTY STUDIO «ESENIA SERVICE» THROUGH THE REPRESENTATIVE WEBSITE

The creation of a representative website for the private enterprise «EseniaService» is a way to attract customers with relatively low costs and a large number of target audience.