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The paper describes the development and application of the software package CoGeo (Computer Geometry) at the Institute of Geometry of the Dresden University of Technology. This software has been developed to support a great variety of tasks in education and research as training in mathematics, geometry and design, general teaching of programming or computer graphics. It is used by different target groups such as students of mechanical and civil engineering, computer science, mathematics, as well as faculty and researchers. The fundamental steps in the design, implementation and application of the system are compatibly presented.