

This diploma thesis deals with description, analysis and creation of physic applets called physlets. It includes overview of existing sources of applets and their comparison. Detailed table analysis informs about usability and quality of available physlets from different websites. Corresponding lesson plans to the chosen physlets on high school level are contained. I elaborated five worksheet of different level to the three chosen physlets. Some of them are attested on high school students. Softwares for creating physlets are compared according to accessibility, demandingness and usability. Diploma thesis contains instructions to create physlets using softwares Easy Java Simulation and Meta Builder. I published a manual for Easy Java Simulation on the server moodle.cz. Corresponding website informs about the whole diploma thesis. It contains all translated physlets with lesson plans and worksheets.