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Teaching					
Scala Functional Programming	Teaching Scala at the University of Szeged in two consecutive years. Please see the following Github repository: <a href="#">Scala-Course-Hungarian</a> and it's <a href="#">informacio</a> folder for images used on the Facebook Group of the course. The Facebook Group has 20 active and 80 inactive member.				
Scala internal company course	16 hours training with 8 occasions: Scala language constructs. Recursive algorithms. Embedded DSLs. External DSLs using Scala Combinator Parsers. Included a workshop session where we were cooperating to make a Form Configuration DSL.				
Parsers					
Scala Parser Combinators	<p>Service parsing hundreds of thousands of imprint pages of websites. Builds database of companies, which is accessible at <a href="http://Unternehmensverzeichnis.org">http://Unternehmensverzeichnis.org</a>. It is replaced the 50 000 lines Java solution with 1 000 lines of Scala production code. There is additional 2 500 lines of Scala test code.</p> <p>The <a href="#">while language</a> toy language parser in less then 180 lines: nested if, nested while, variable, integer and boolean expressions. Other small, but not trivial work in progress DSL projects on Github: <a href="#">dsl-for-starting-in-dependency-order</a>, <a href="#">top-calc-dsl</a> and <a href="#">PlantUML-Wireframe-to-Vuetify-js</a></p>				
VBScript plugin for IntelliJ IDEA	<p>Complete language plugin developed in 4 months: Indicates source code problems. Handles line continuation comments, classes, functions, variables. Supports find usages and go to symbol. Analyses code to determine the type of variables. Has autocomplete, structure view, code folding, syntax highlight, auto-format, colour and style settings.</p> <p>Tested with 200 000 lines VBScript project.</p>				
ANTLR	Parser for C header files and translate them to Java interfaces. Module of a Mobile Phone design and simulation system. The purpose of the module was to enable the usage of the above system in case of already existing Linux based Mobile Phones.				
Other plugins and file converters					
CadKey Plugin	Plugin to handle the DSTV file format which describes metal constructs and the necessary preparation steps to make them.				
Vector Graphic file converters	AutoCAD DXF, Windows Metafile and Gerber Plotter File converters handling polygons, bezier curves, splines, arcs, circles and ellipses.				