an external tree visitor pattern"
Posted by wildbill on Thu, 02 Nov 2023 08:47:14 GMT
View Forum Message <> Reply to Message

Creating Gear: An interpreter written in Free Pascal using an external tree visitor pattern
Jeroen de Haan

https://github.com/jdehaan2014/GearLanguage/tree/master/inte rpreter

https://cloud.mail.ru/public/1KND/xbMLrR7a4

This is a no-nonsense book about creating an interpreted programming language, named
"Gear", using an external visitor pattern. Why Gear? No particular reason, I just like the
sound of it…
In this book I won't describe a lot of theory, as there are plenty of good books out there. As a
matter of fact, I do recommend reading a few of them, such as:

- Writing Compilers and Interpreters, A software emgineering approach (Ronald Mak)

- Language Implementation Patterns (Terence Parr)

Then, there are hands-on websites/blogs that describe and create an interpreter on-the-go:

- Let's build a simple interpreter (https://ruslanspivak.com/lsbasi-part1/) (Ruslan Spivak)

- Crafting Interpreters (http://craftinginterpreters.com) (Bob Nystrom)

These books/blogs use Java or Python as programming language.

The code in this book is based on the programming language Object Pascal, a modern pascal
version, and the free downloadable IDE 'Lazarus'. Lazarus/Free Pascal is available for
Windows, Linux, OSX, and many other Operatig Systems. It's slogan is: 'Write once,
compile anywhere'! The website and download links are available at:
http://www.lazarus-ide.org/index.php. For this book I use version 2.0.4 (or later) of Lazarus and
version 3.04 (or later) of Free Pascal.