

# References

Peter Lee – Realistic Compiler Generation.

Denotational Semantics in several passes.

<https://www.amazon.ca/Realistic-Compiler-Generation-Peter-Lee/dp/0262121417>

Holt, Cordy, Wortman

S/SL

Syntax Semantic Language

Primitives for Parsing

Primitives (mechanisms) for *handles* to semantic checking

<https://research.cs.queensu.ca/home/cordy/pub/downloads/ssl/>

(paper in pt+ssl/doc/ssl.intro and various other places)

Cordy

OCG

Orthogonal Code Generator

Portable code generator in two passes, declarative

<https://books.google.ca/books?id=X0OaMQEACAAJ&dq=bibliogroup:>

[University+of+Toronto+Computer+Systems+Research+Institute+Technical+Report+CSRI](https://books.google.ca/books?id=X0OaMQEACAAJ&dq=bibliogroup:University+of+Toronto+Computer+Systems+Research+Institute+Technical+Report+CSRI)

[%22&hl=en&sa=X&ved=2ahUKEwig1Legm8bqAhWvIHIEHYzzBYEQ6AEwBHoECAEQAQs](https://books.google.ca/books?id=X0OaMQEACAAJ&dq=bibliogroup:University+of+Toronto+Computer+Systems+Research+Institute+Technical+Report+CSRI&hl=en&sa=X&ved=2ahUKEwig1Legm8bqAhWvIHIEHYzzBYEQ6AEwBHoECAEQAQs)

Fraser Davidson

[https://www.researchgate.net/publication/](https://www.researchgate.net/publication/220404697)

[220404697 The Design and Application of a Retargetable Peephole Optimizer](https://www.researchgate.net/publication/220404697)

Portable code generator in two passes

(Used in gcc)

Smalltalk Blue Book

implementation of Smalltalk in a subset of Smalltalk

<http://www.mirandabanda.org/bluebook/>

Ron Cain

SmallC

very straight-forward implementation of a C compiler that could (IMO) be ported to any modern language

[https://ia801008.us.archive.org/19/items/dr\\_dobbs\\_journal\\_vol\\_05\\_201803/](https://ia801008.us.archive.org/19/items/dr_dobbs_journal_vol_05_201803/)

[dr\\_dobbs\\_journal\\_vol\\_05.pdf](https://ia801008.us.archive.org/19/items/dr_dobbs_journal_vol_05_201803/)

(see number 45, May 1980 “A Small C Compiler for the 8080’s)

Anatomy of Lisp

John R. Allen

a Lisp Compiler written in a functional style

<https://www.amazon.ca/Anatomy-Lisp-John-Allen/dp/007001115X>

Flow-Based Programming

J. P. Morrison

<https://jpaulm.github.io/fbp/>

book: <https://jpaulm.github.io/fbp/book.html>

google group: <https://groups.google.com/d/forum/flow-based-programming>

slack:

[https://join.slack.com/t/fbphq/shared\\_invite/enQtOTM4ODkzMTYyODE3LTJiMmNlZjhiMWY1MDY1ODA4Y2YzNDBlNDZlMTBkMDNlMjcwNzg2MGZhZjA2NjJyYTliYTM0OTlyYmM0Yzk0MDQ](https://join.slack.com/t/fbphq/shared_invite/enQtOTM4ODkzMTYyODE3LTJiMmNlZjhiMWY1MDY1ODA4Y2YzNDBlNDZlMTBkMDNlMjcwNzg2MGZhZjA2NjJyYTliYTM0OTlyYmM0Yzk0MDQ)

Nils Holm

PROLOG Control in Six Slides

PROLOG is fundamentally very simple – it is just an exhaustive pattern matching tool

Nils Holm created the easiest (IMO) to understand description of PROLOG...

<https://www.t3x.org/bits/prolog6.html>

Eiffel, The Language

Bertrand Meyer

<https://www.amazon.ca/Eiffel-The-Language/dp/0132479257>

Dr. Dobb's Journal of Computer Calisthenics & Orthodontia, Volume One

(see Tiny Basic)

[https://ia801302.us.archive.org/24/items/dr\\_dobbs\\_journal\\_vol\\_01/dr\\_dobbs\\_journal\\_vol\\_01.pdf](https://ia801302.us.archive.org/24/items/dr_dobbs_journal_vol_01/dr_dobbs_journal_vol_01.pdf)

Dr. Dobb's Journal of Computer Calisthenics & Orthodontia, Volume Four

(my article "Potpourri of Lisp Functions" in number 38)

[https://ia801007.us.archive.org/30/items/dr\\_dobbs\\_journal\\_vol\\_04\\_201803/dr\\_dobbs\\_journal\\_vol\\_04.pdf](https://ia801007.us.archive.org/30/items/dr_dobbs_journal_vol_04_201803/dr_dobbs_journal_vol_04.pdf)

Jonathan Edwards

Getting to Simple

<https://alarmingdevelopment.org/?p=766>

Paul Bassett

Framing Software Reuse

<https://www.amazon.ca/Framing-Software-Reuse-Lessons-World/dp/013327859X>

(see also XVCL) <https://www.sciencedirect.com/science/article/pii/S0167642304000978>

Frits van der Wateren

Lisp for MC6800

<https://github.com/guitarvydas/frits-van-der-wateren-lisp>

Cordy, TXL

Source Transformation by Example

(functional, backtracking, parsing)

<http://www.txl.ca/>

R.C. Holt

Data Descriptors

<https://dl.acm.org/doi/abs/10.1145/24039.24051>

Greenspun's Tenth Rule

[https://en.wikipedia.org/wiki/Greenspun's\\_tenth\\_rule](https://en.wikipedia.org/wiki/Greenspun's_tenth_rule)

Ilya Prigogine

Order Out of Chaos

[https://www.amazon.com/Order-Out-Chaos-Dialogue-Thinkers-ebook/dp/B01N7H2J3B/ref=sr\\_1\\_1?dchild=1&keywords=ilya+prigogine+order&qid=1595281139&sr=8-1](https://www.amazon.com/Order-Out-Chaos-Dialogue-Thinkers-ebook/dp/B01N7H2J3B/ref=sr_1_1?dchild=1&keywords=ilya+prigogine+order&qid=1595281139&sr=8-1)

C.A.R. Hoare CSP (Communicating Sequential Processes)

<https://www.cs.cmu.edu/~crary/819-f09/Hoare78.pdf>

Ron Cain

Small-C

<https://en.wikipedia.org/wiki/Small-C>

Ohm-js

object-oriented language for JS (based on PEG and META-II)

<https://github.com/harc/ohm>

PEG.js

PEG parser for JS (I feel that Ohm is “better”)

<https://pegjs.org/>

ESRAP

PEG parser for CL (Common Lisp)

<https://scymtym.github.io/esrap/>

Bryan Ford

PEG parsing – the definitive source

<https://bford.info/packrat/>

JQ tutorial

<https://codefaster.substack.com/p/mastering-jq-part-1-59c>

Rob Pike “Concurrency is not Parallelism”

<https://vimeo.com/49718712>