

Refe	rences	PLaC-0.5
Material for this course <b>PLaC</b> : for the Master course <b>Compilation Methods</b> :		g-kastens.upb.de/lehre/material/plac kastens.upb.de/lehre/material/compii
Modellierung: Grundlagen der Programmiersprachen:		kastens.upb.de/lehre/material/model ag-kastens.upb.de/lehre/material/gdp
John C. Mitchell: Concepts in Programming	Language	es, Cambridge University Press, 2003
R. W. Sebesta: Concepts of Programming L	anguages	, 4. Ed., Addison-Wesley, 1999
U. Kastens: Übersetzerbau, Handbuch der In (not available on the market anymore, availab		
A. W. Appel: <b>Modern Compiler Implementat</b> 2nd Edition, 2002 (available for C and for ML,		<b>a</b> , Cambridge University Press,
W. M. Waite, L. R. Carter: <b>An Introduction to</b> Harper Collins, New York, 1993	Compiler	Construction,
U. Kastens, A. M. Sloane, W. M. Waite: Gene Jones and Bartlett Publishers, 2007	rating Sof	tware from Specifications,
Course mate	erial in t	PLaC-0.6
C C Lecture Programming Lan		s WS 2013/14 C Reader D T Coogle Maps Wikipedia Apple
	BORN ellschaft	
Fachgruppe Kasters > Letro > Inogramming Languages and Complex: VIS 2013/14 Sildes Assignments	juages and C	ompilers WS 2013/14
Organization News Slides		Assignments
My koaLA · Chapters suchen: Slides		Assignments     Printing
Printing		

Ressources

Objectives

Literature

Prerequisites

Online Reading Material (Koala)

Eli Online Documentation

## References forReading

PLaC-0.5a

Week	Chapter	Kastens	Waite Carter	Eli Doc.
1	0. Introduction			
2	1. Language Properties and Compiler tasks	1, 2	1.1 - 2.1	
3 - 4	2. Symbol Specification and Lexical Analysis	3	2.4 3.1 - 3.3	+
5 - 7	3. Context-free Grammars and Syntactic Analysis	4	4, 5, 6	+
8 - 10	4. Attribute Grammars and Semantic Analysis	5		+
11	5. Binding of Names	6.2	7	+
12	6. Type Specification and Analysis	(6.1)		+
13	7. Specification of Dynamic Semantics			
13	8. Source-to-Source Translation			
	9. Domain Specific Languages			



ă

Prof.

013 bei

Organization

• News

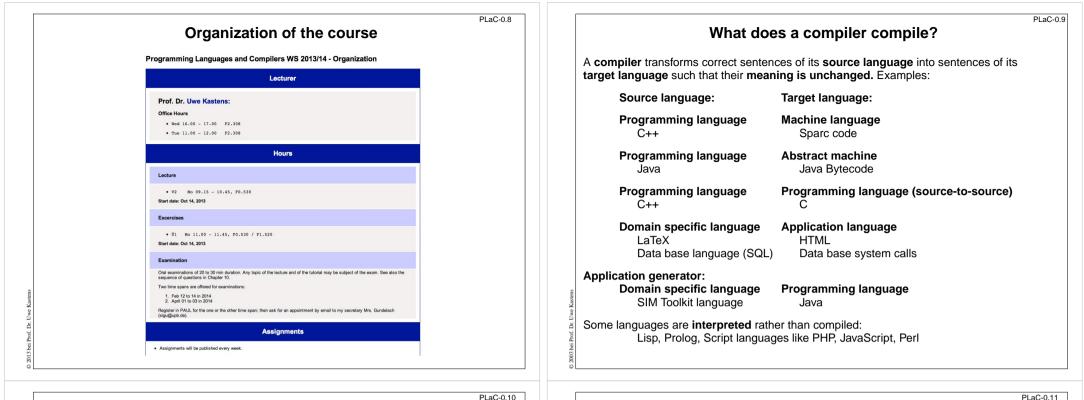
Veranstaltungs-Nummer: L.079.05505

General Information

04.10.2013

Generiert mit Camelot | Probleme mit Camelot? | Geändert am: 06.10.2013

Lectures begin on Mo October 14 at 09:15, Room F0.530.



## What is compiled here?

class Average class Average { private: { private int sum, count; public public: Average (void) { sum = 0; count = 0; } void Enter (int val) { sum = sum + val; count++; } float GetAverage (void) { return sum / count; } }; }; \_\_\_\_\_ \_Enter\_\_7Averagei: Access: [] pushl %ebp movl %esp,%ebp movl 8(%ebp),%edx 0: movl 12(%ebp),%eax 1: addl %eax,(%edx) 2: incl 4(%edx) 5: L6: 6: 7: movl %ebp,%esp 10: popl %ebp 11: ret 12: 15:

int sum, count; Average () { sum = 0; count = 0; } void Enter (int val) { sum = sum + val; count++; } float GetAverage () { return sum / count; } 1: Enter: (int) --> void Attribute 'Code' (Length 49) Code: 21 Bytes Stackdepth: 3 Locals: 2 aload 0 aload 0 getfield cp4 iload\_1 iadd putfield cp4 aload\_0 dup getfield cp3 iconst\_1 16: iadd

## What is compiled here?

program Average; var sum, count: integer; aver: integer; procedure Enter (val: integer); begin sum := sum + val; count := count + 1; end; begin sum := 0; count := 0; Enter (5); Enter (7); aver := sum div count; end. \_\_\_\_\_ void ENTER\_5 (char \*slnk , int VAL\_4) {/\* data definitions: \*/ /\* executable code: \*/ SUM 1 = (SUM 1) + (VAL 4); $COUNT_2 = (COUNT_2) + (1);$ ; } /\* ENTER\_5 \*/

\documentstyle[12pt]{article}
\begin{document}
\section{Introduction}
This is a very short document.
It just shows
\begin{itemize}
\item an item, and
\item another item.
\end{itemize}
\end{document}

\_\_\_\_\_

%%Page: 1 1
1 0 bop 164 315 a Fc(1)81
b(In)n(tro)r(duction)
164 425 y Fb(This)16
b(is)g(a)h(v)o(ery)e(short)
i(do)q(cumen)o(t.)j(It)c(just)g
(sho)o(ws)237 527 y Fa(\017)24 b
Fb(an)17 b(item,)
c(and)237 628 y Fa(\017)24 b
Fb(another)17 b(item.)
961 2607 y(1)p
eop

