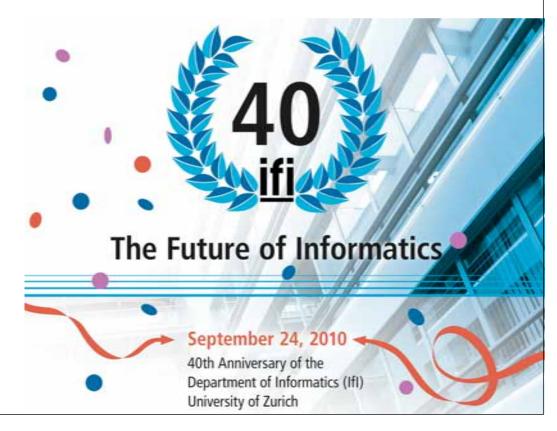


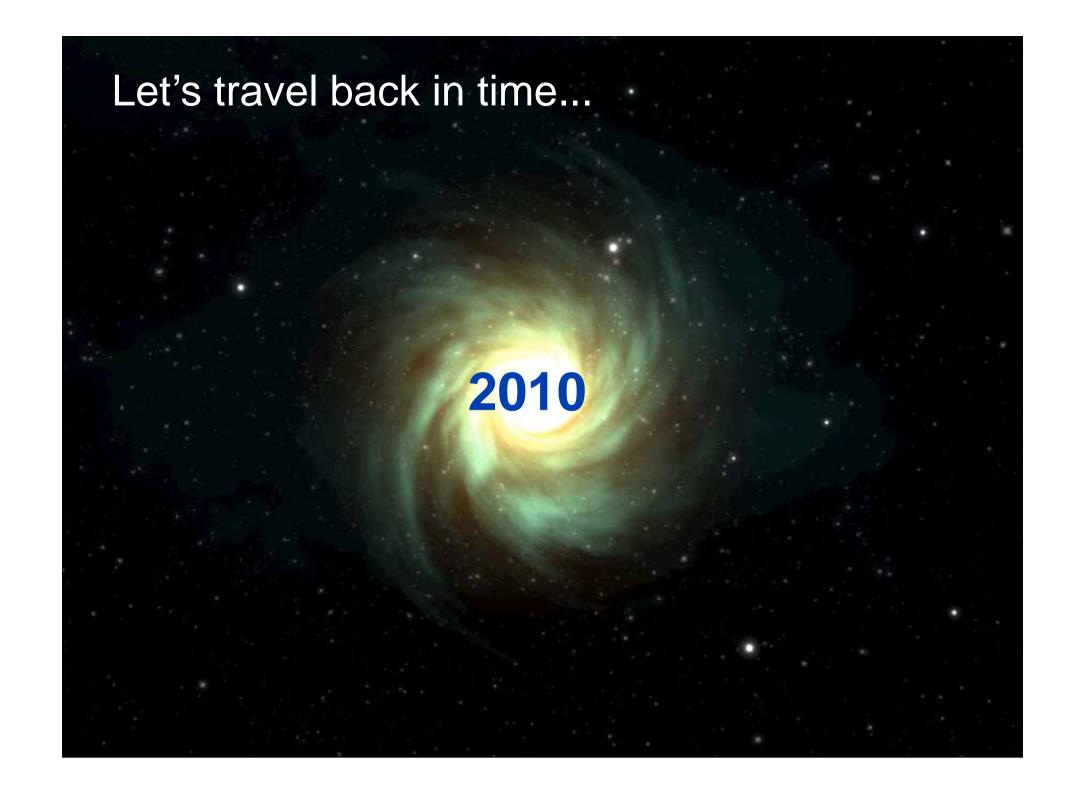
**Department of Informatics** 

# A Brief Look Back on IfI's History and Achievements

Martin Glinz

Department Head









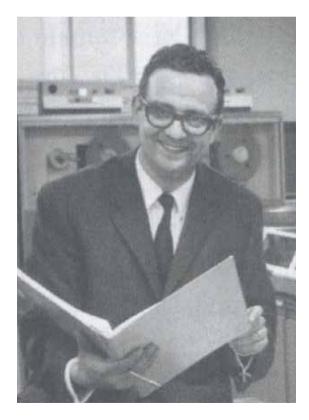


## 1958 Where it all began

Hans Künzi is appointed professor of

Operations Research und Elektronische Datenverarbeitung

in the Faculty of Law and Economics





1962



### Four years later

The first computer at UZH: An IBM 1620

Storage capacity: 20'000 numbers

Addition cycle time: 600 μs







## The predecessor to IfI

## Institut für Operations Research und elektronische Datenverarbeitung



#### E I N L A D U N G

Sehr geehrte Herren,

Seit Anfang dieses Jahres befindet sich die neue elektronische Rechenmaschine der Universität Zürich und der Kantonalen Verwaltung im Betrieb. Sie ist im ebenfalls neu errichteten INSTITUT FUER OPERATIONS RESEARCH UND ELEKTRONISCHE DATENVERARBEITUNG DER UNIVERSITAET ZUERICH an der Sumatrastrasse 30 installiert. Wir freuen uns, Sie zur E i n w e i h u n g s f e i e r der Anlage und des Instituts höflich einzuladen auf

Freitag, 26. Mai 1967, 16.00 Uhr,





## 1967 And a new computer

Institut für Operations Research und elektronische Datenverarbeitung

#### The **IBM 360/40**

#### Storage capacity:

- 256 Kbyte main memory
- 29 Mbyte disk space

#### Addition cycle time:

10 μs







#### A department is born

#### Foundation of the Institut für Elektronische Datenverarbeitung

#### Auszug aus dem Protokoll

des Regierungsrates de Sitzung vom 26. No

5776. Universität. Die Rechts-



A Brief Look Back on IfI's History and Achievements

Auf Antrag der Direktion des Erziehungswesens und des Erziehungsrates

LIVERSITATI

beschliesst der Regierungsrat:

I. An der Rechts- und staatswissenschaftlichen Fakultät der Universität Zürich wird der Lehrstuhl für Operations Research und Elektronische Datenverarbeitung aufgeteilt in ein Ordinariat für Operations Research und ein Extraordinariat für Elektronische Datenverarbeitung. Das Institut für Operations Research und Elektronische Datenverarbeitung wird aufgeteilt in ein Institut für Operations Research und ein Institut für Elektronische Datenverarbeitung.

II. Als Extraordinarius für Elektronische Datenverarbeitung und Direktor des Instituts für Elektronische Datenverarbeitung an der Rechts- und staatswissenschaftlichen Fakultät der Universität Zürich wird auf den 16. Oktober 1970 gewählt:

PD Dr. Kurt Bauknecht, geboren 1936, von und in Zürich. Die Wahl als Extraordinarius erfolgt für eine Amtsdauer von sechs Jahren, diejenige als Direktor für den Rest der



## A new name for an emerging discipline

#### The department is renamed to Institut für Informatik

Auszug aus dem Protokoll des Regierungsrates des Kantons Zürich

Sitzung vom 22. August 1973



I. Der Umbennung des Instituts für elektronische Datenverarbeitung an der Rechts- und staatswissenschaftlichen Fakultät der Universität Zürich in «Institut für Informatik» wird zugestimmt.

II. An der Rechts- und staatswissenschaftlichen Fakultät der Universität Zürich wird das Extraordinariat für elektronische Datenverarbeitung in ein etatmässiges Ordinariat mit neuer Lehrumschreibung «Informatik» umgewandelt.

#### Pioneers elsewhere

#### ETH Zurich

1950ies Eduard Stiefel, Heinz Rutishauser, Ambros Speiser

Zuse Z4, ERMETH

1960ies Carl-August Zehnder, Niklaus Wirth

1968 Fachgruppe für Computerwissenschaften

1974 Institut für Informatik

1981 Diploma program in Informatics

#### The first decade: 1970-1980

Informatics is established

Research thrives

Informatics is taught as a minor subject

... but there is *no academic program* in Informatics

The same happened at ETH and other Swiss universities

Kurt Bauknecht makes IfI move forward (at a department excursion)



### Eventually: A Teaching milestone

1980

Foundation of an academic program in informatics: Wirtschaftsinformatik (as a part of the program in Economics and Business Administration



#### More teaching milestones

1980

Foundation of an academic program in informatics: Wirtschaftsinformatik (as a part of the program in Economics and BA

1995

A program of its own: Informatics with concentration in information systems

2004

BSc and MSc in Informatics

## The effect of teaching: We are proud of our alumni

in academia > 20 professors

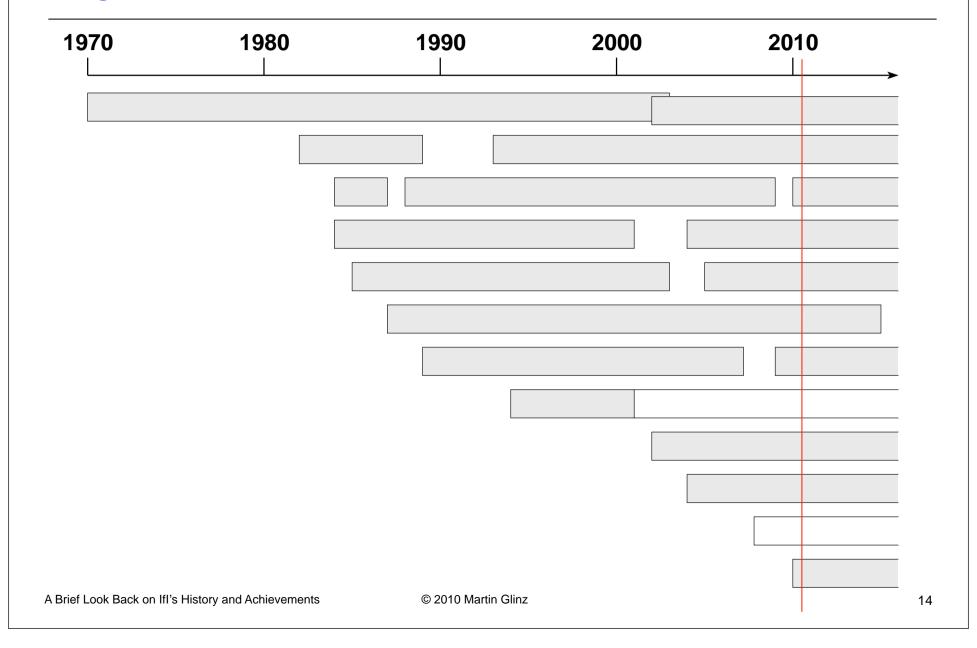
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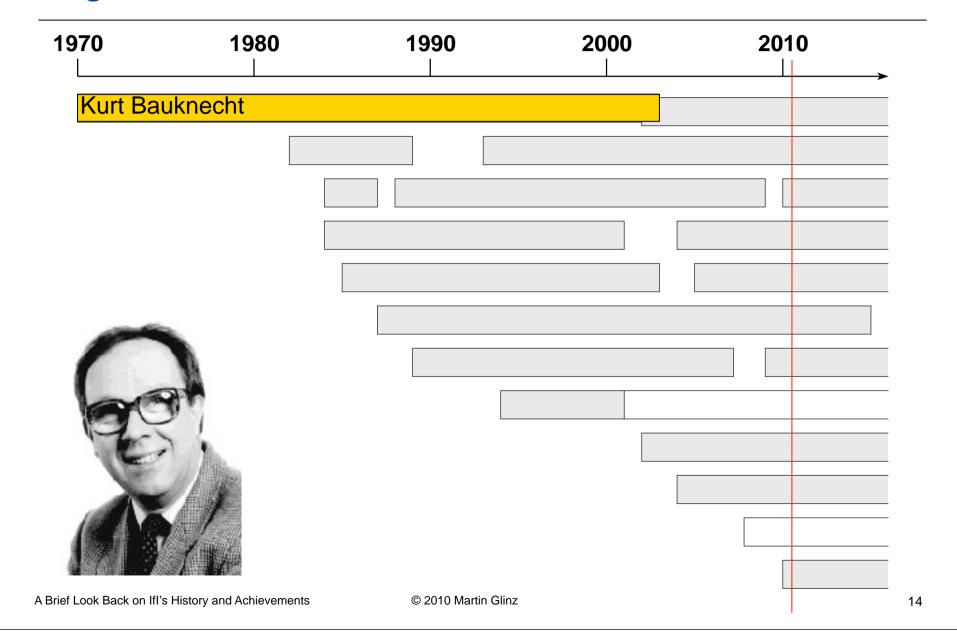
in industry

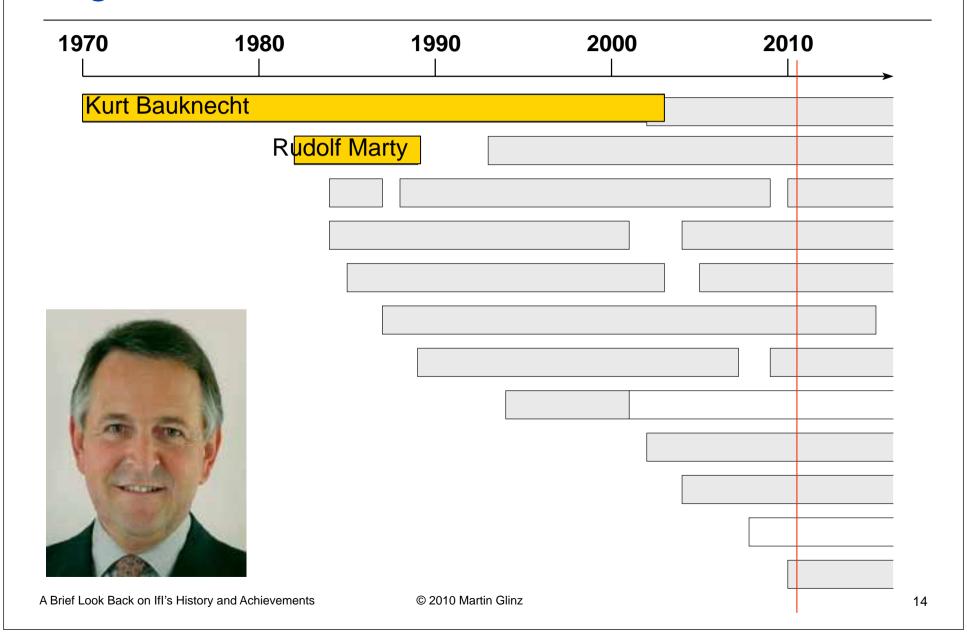
Technical Experts
Senior managers

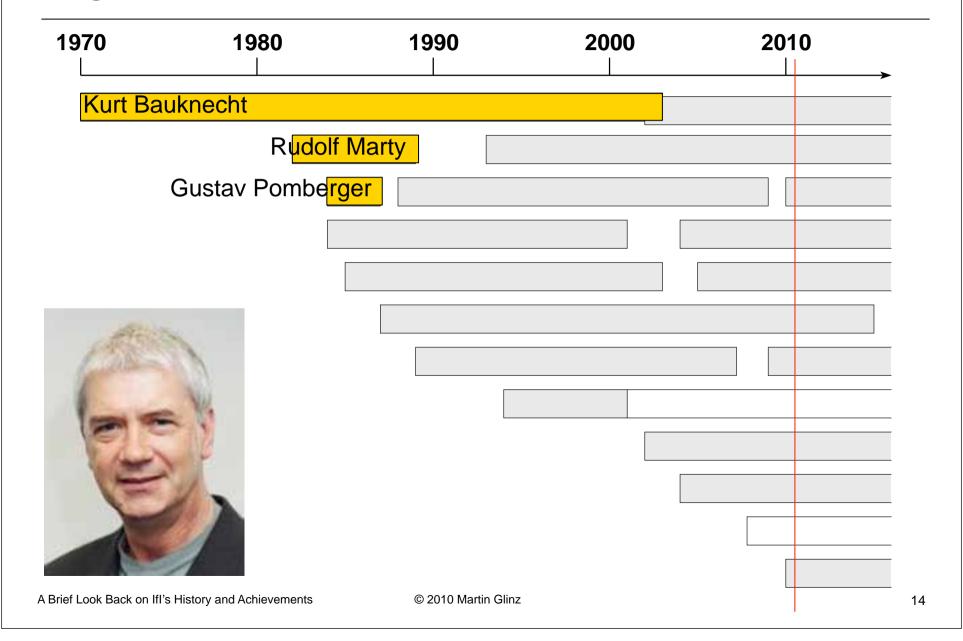
Entrepreneurs
Distinguished engineers

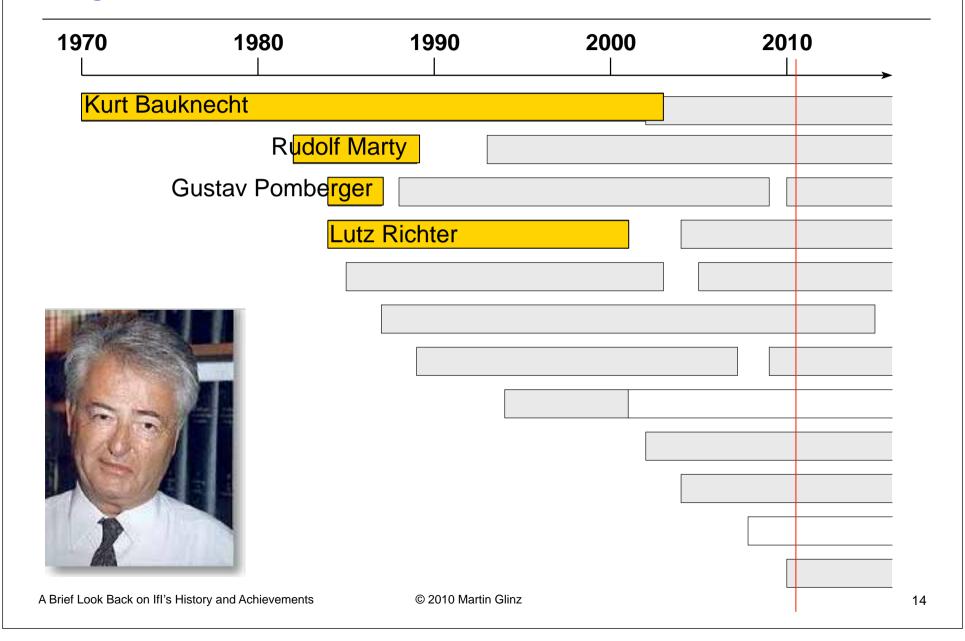


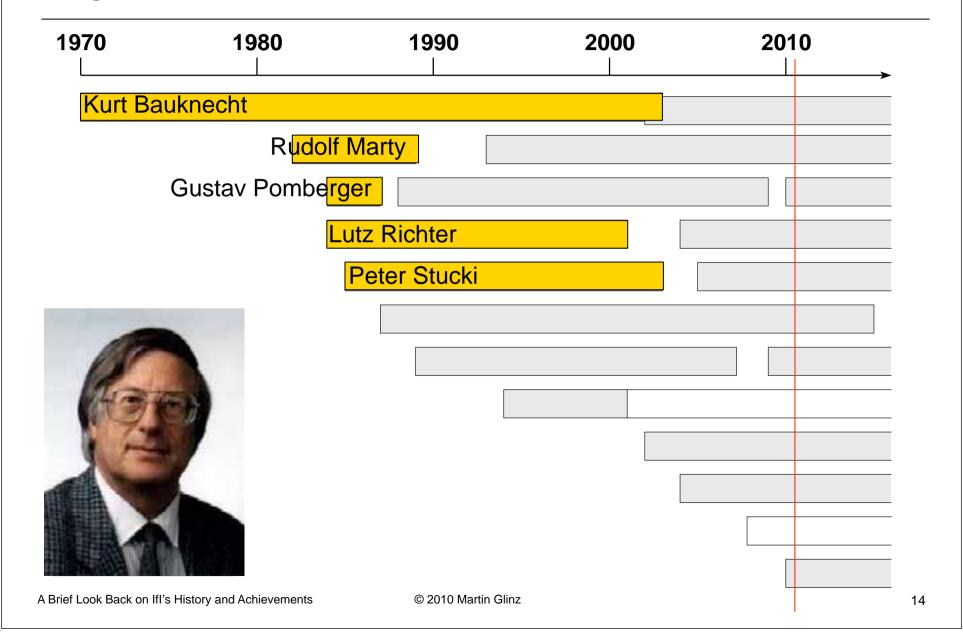


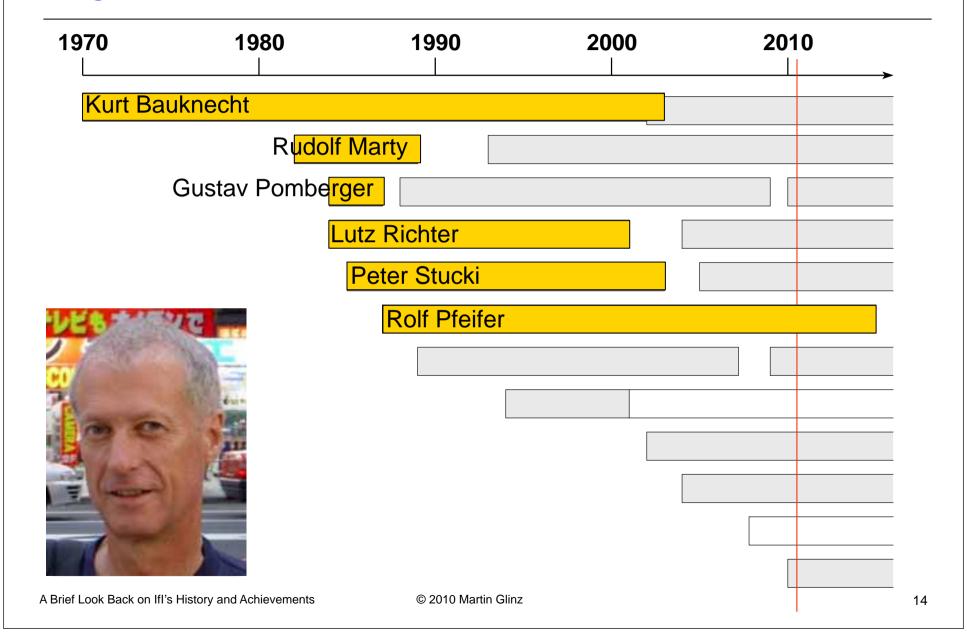


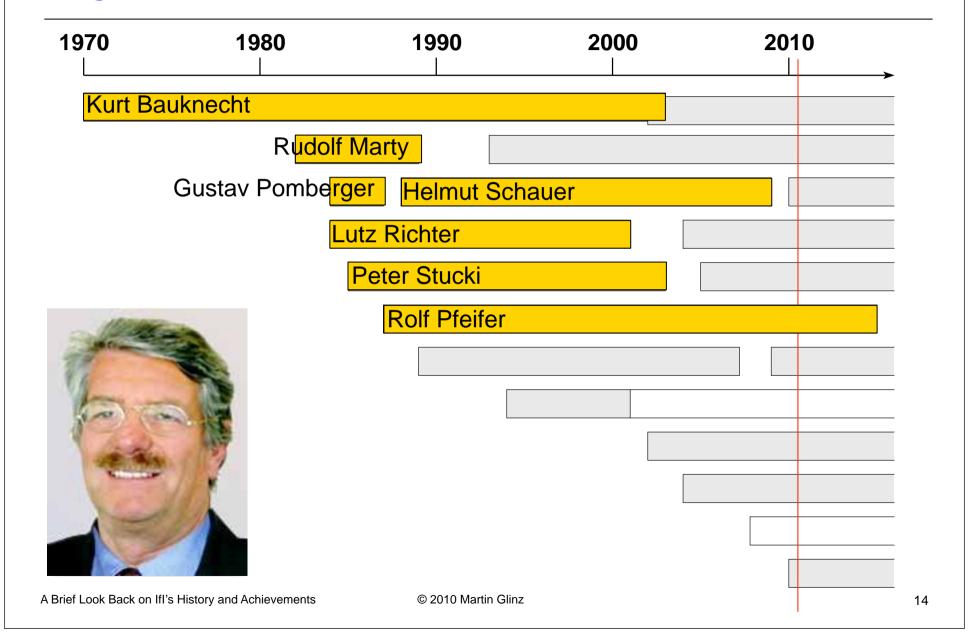


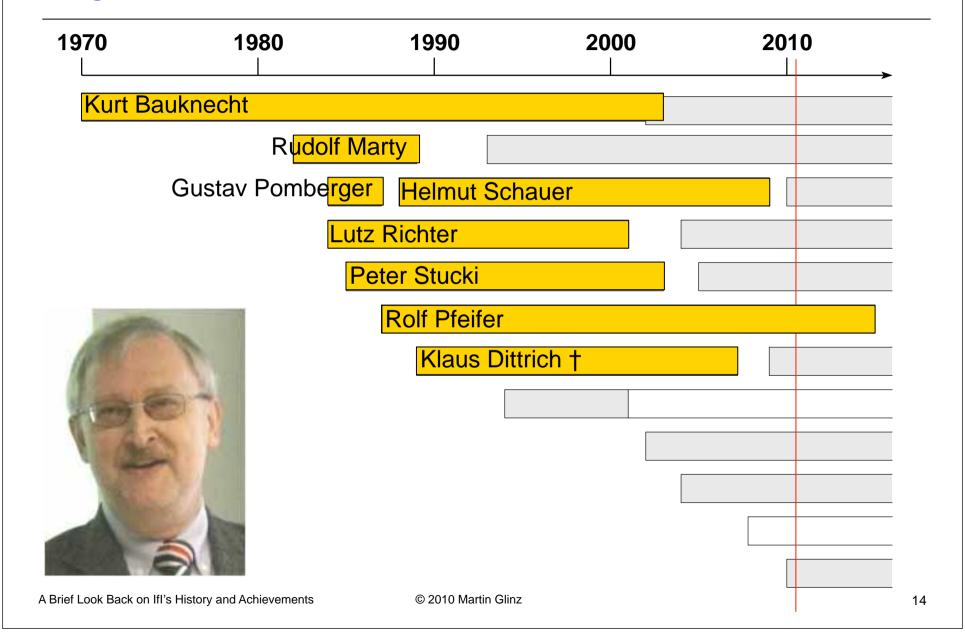


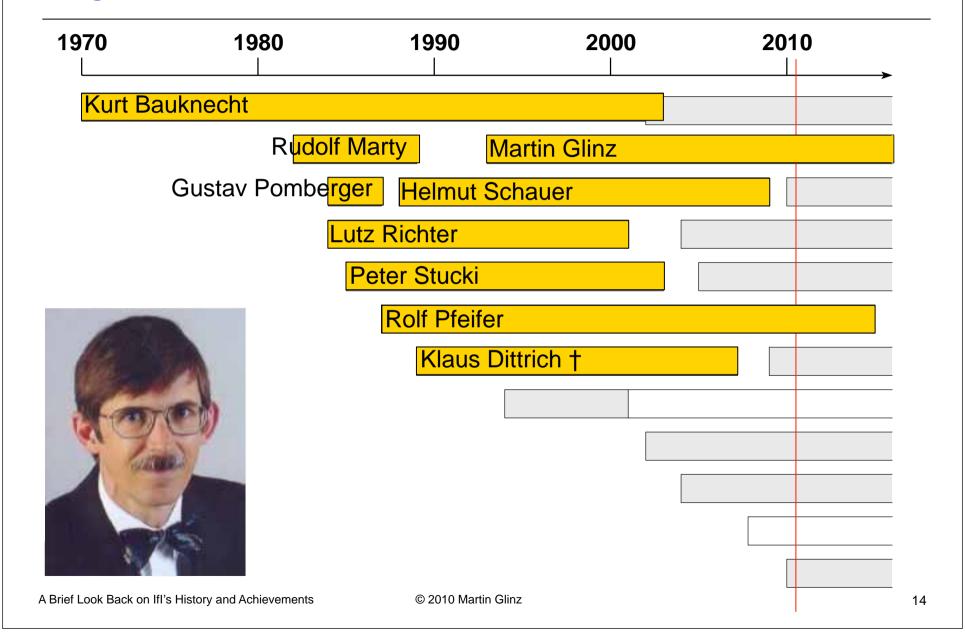


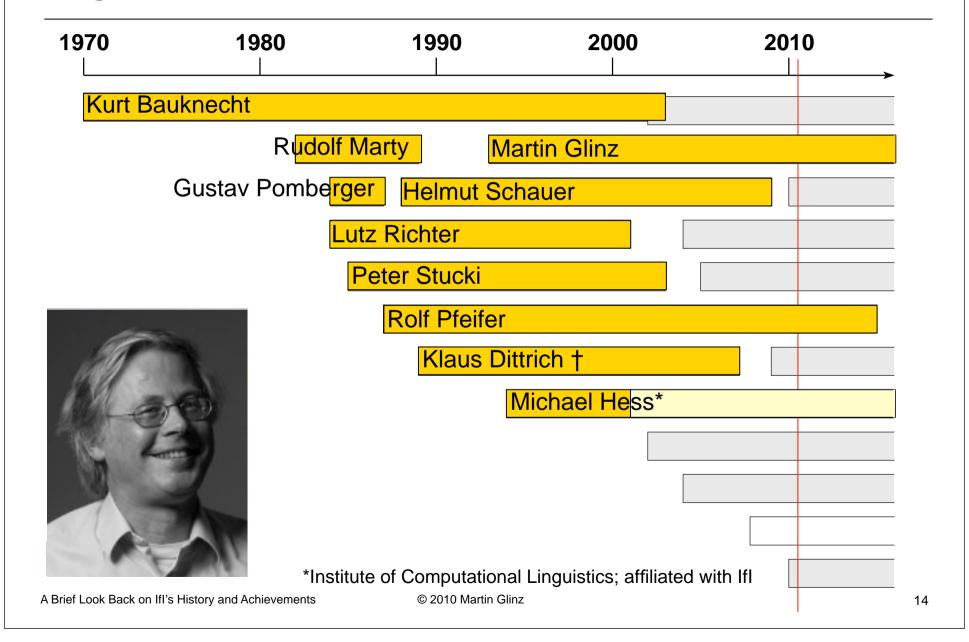


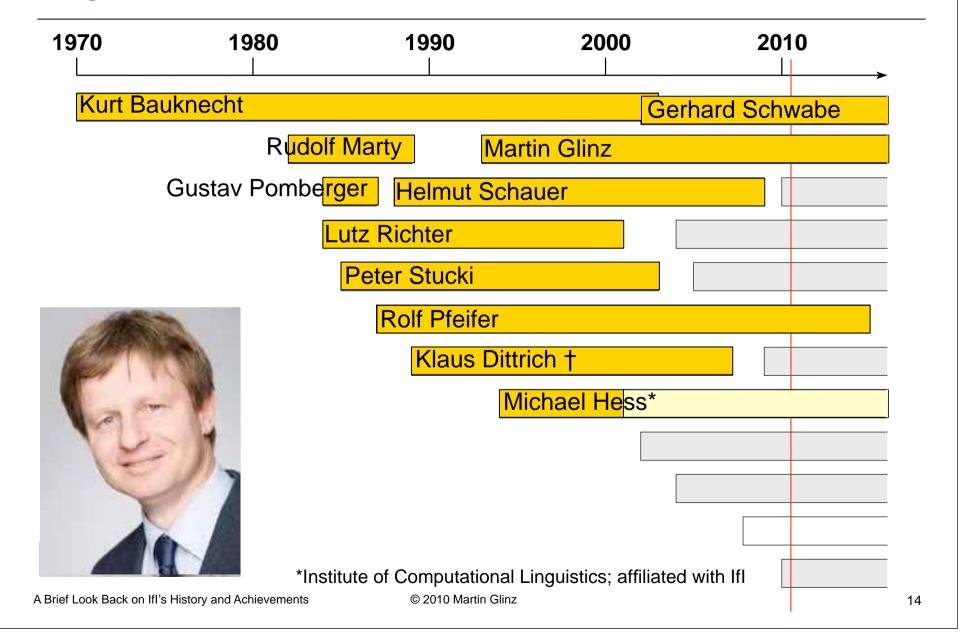


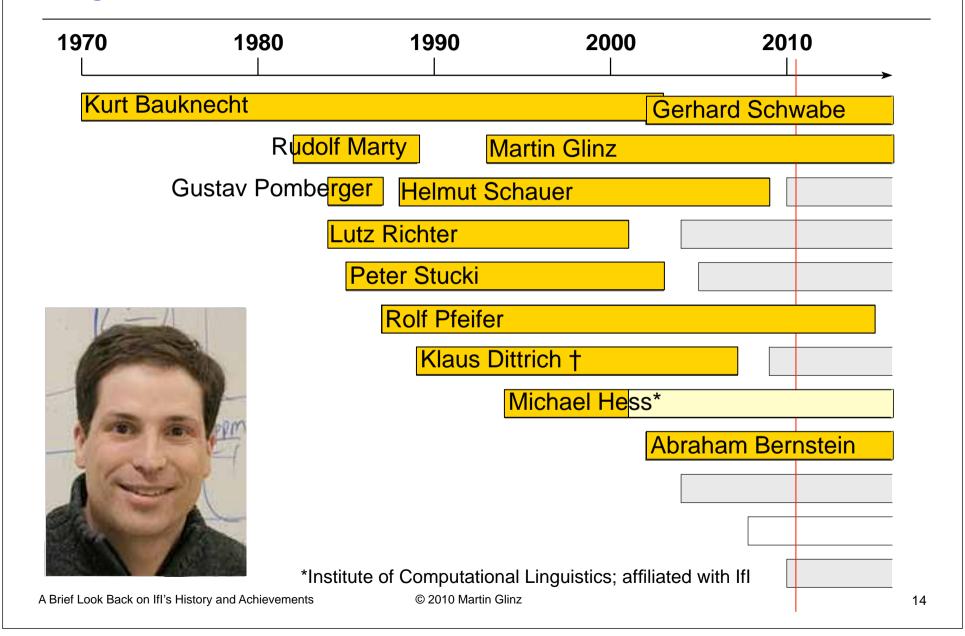


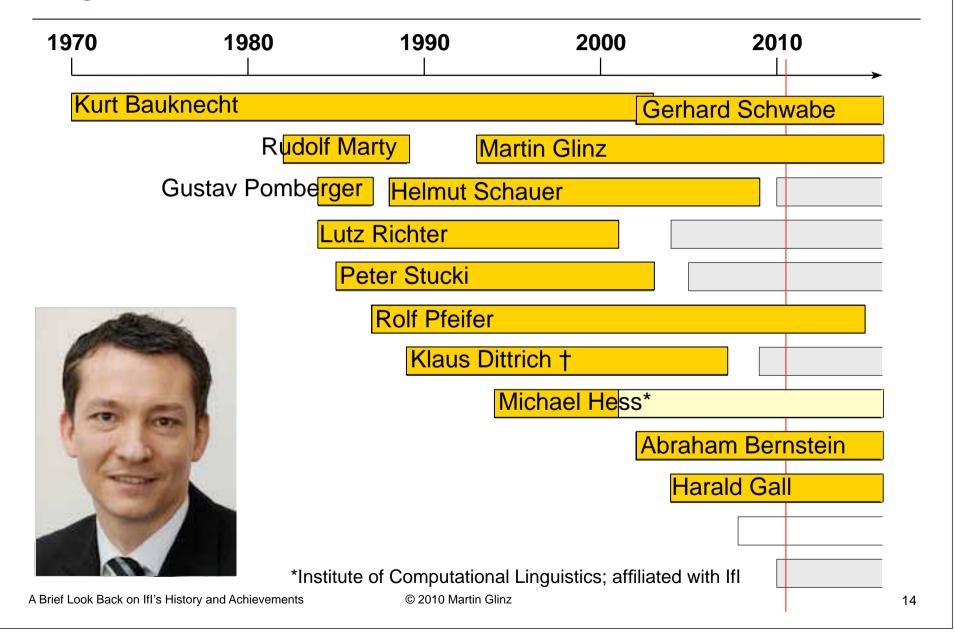


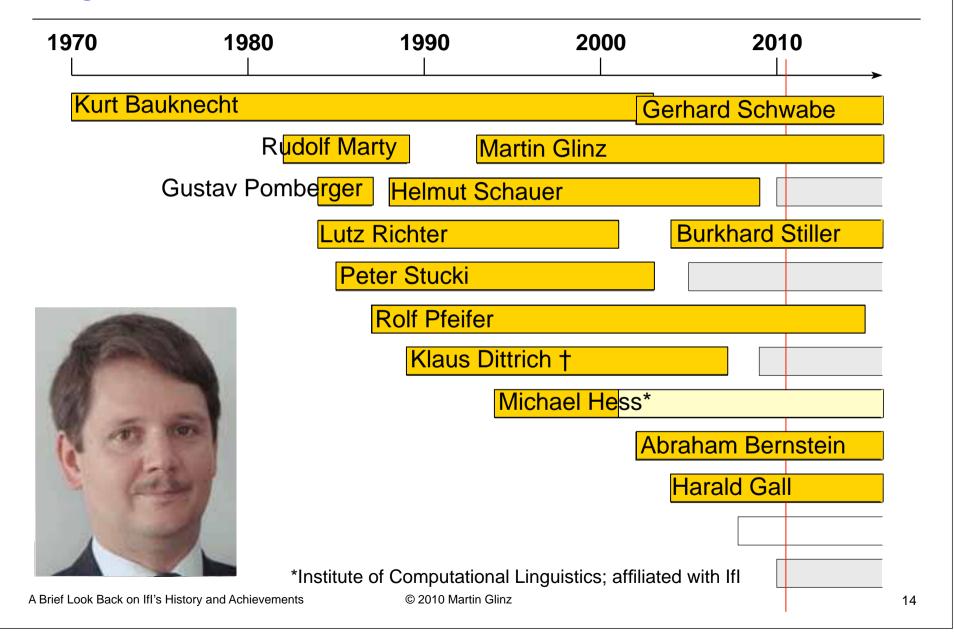


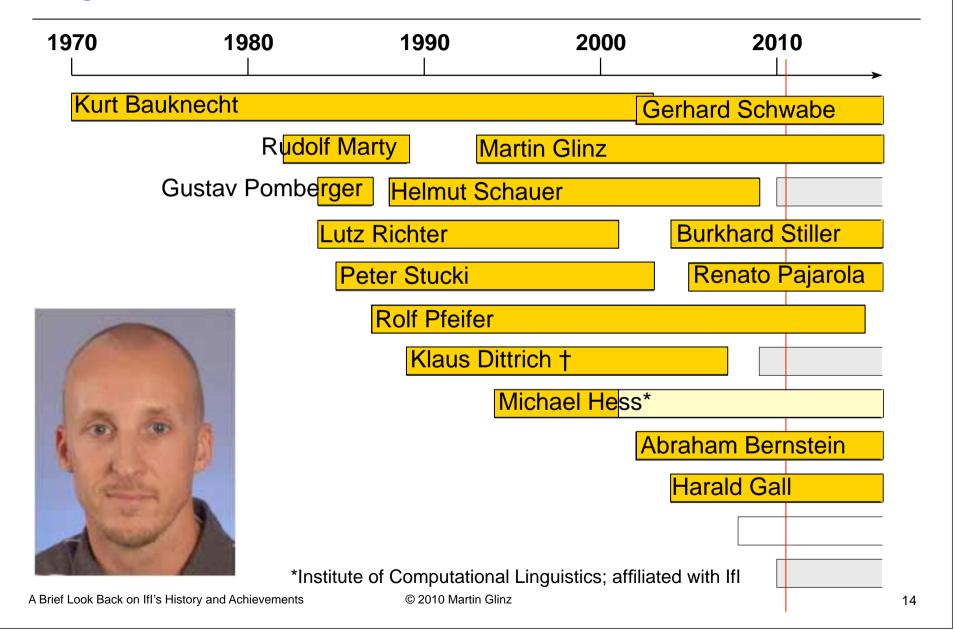


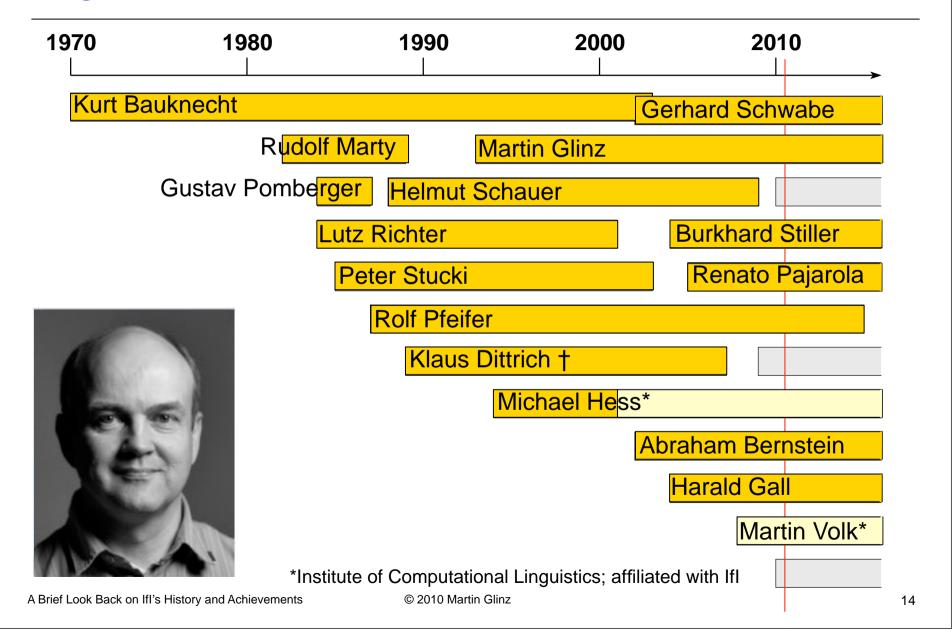


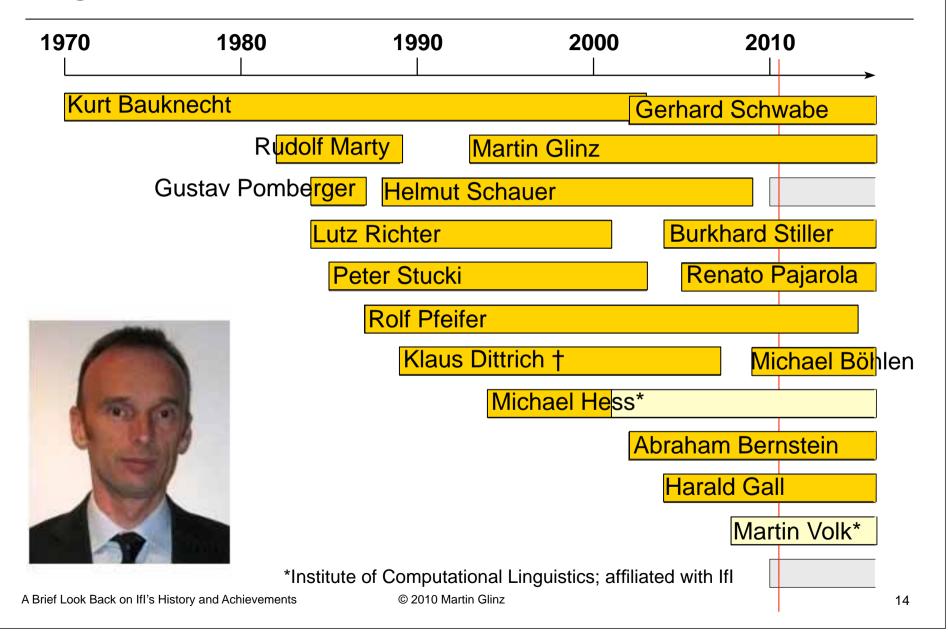


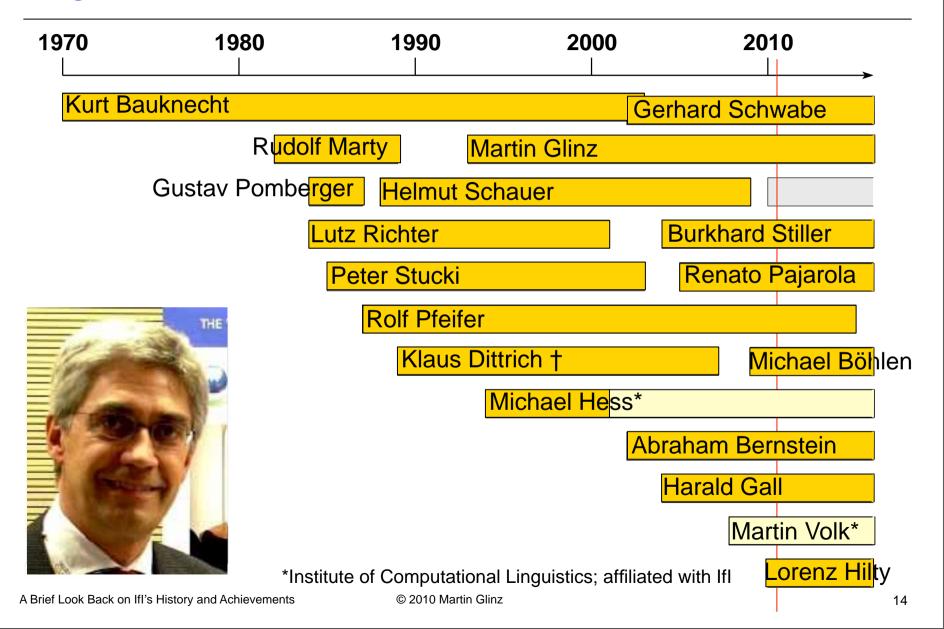


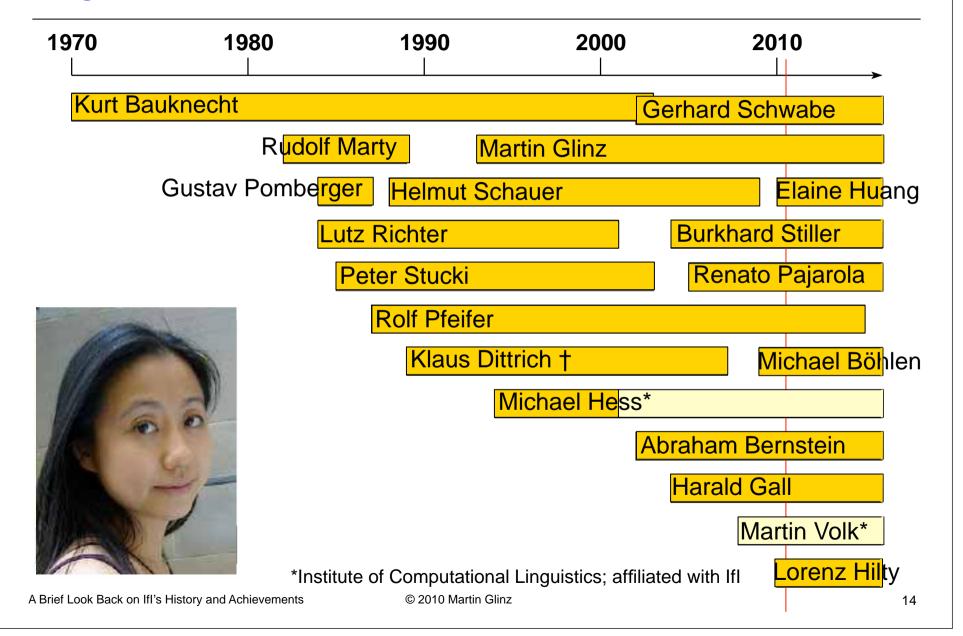












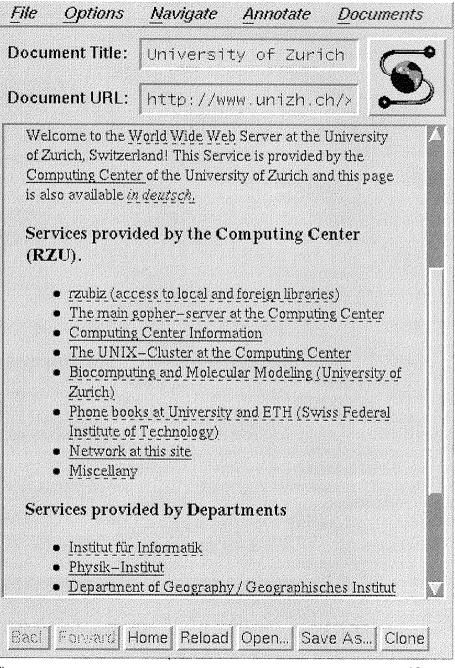
#### At the forefront of innovation

Events worth remembering

#### On the Web since 1993

The first Web server at UZH Operated by the Computing Center

Then a part of IfI



# IfI's first official homepage in 1994



#### Institut für Informatik - WWW / Mosaic-Eingangsseite

Am Institut für Informatik der Universität Zürich bestehen verschiedene netzwerkbasierte Informationssysteme. Es wird ein "Anonymous FTP"-Server betrieben, ein Gopher-Server dient als Institutsinformationssystem, einige WAIS-Clients, und wie hiermit festegestellt werden kann, WWW "world-wide web". Mit diesem Werkzeug haben Sie Zugriff auf alle diese Dienste.

#### Bitte wählen Sie zwischen:

- Institut für Informatik (Gopher)
- · List of WWW Servers in the World
- NCSA Mosaic-Eingangsseite
- · Anonymous FTP archive of the Ifi (DCS of UofZurich) on claude
- HOWTO-Seiten auf den UNIX-Systemen des IfI
- Usenet-Newsgruppen speziell für's IfI
- WWW am Rechenzentrum der Universität Zürich
- Der WAIS Server des Ifi's

P.S.: Es gibt bereits eine experimentelle HTML-Seite: IfI HTML-Experiment.

Für Fragen bezüglich dieses neuen Mediums bitte bei RH (gopher@ifi.unizh.ch) melden! Anregungen und Beiträge sind gerne willkommen!

### A few months later, research groups follow



#### Department of Computer Science, University of Zurich

Hier ist die deutsche Version dieser Seite.

On the Department of Computer Science at the University of <u>Zurich</u> various information services are provided: an anonymous FTP server, Gopher serves as internal information source, some WAIS clients and WWW "world-wide web".

#### Please select:

- Department of Computer Science (Gopher)
- Anonymous FTP archive
- WAIS server of the IFI
- Workshop Announcement:
   Practice and Future of Autonomous Agents (ASI-AA-95)
- · Research Groups at the Department of Computer Science
- Computing Center of the University of Zurich (RZU)
- · List of WWW Servers in the World

Please send suggestions to <gopher@ifi.unizh.ch>

# 1985: A quantum leap in teaching support

#### IfI buys dozens of Macs



# 1985: A quantum leap in teaching support

#### IfI buys dozens of Macs



# Service to the community

- Kurt Bauknecht was president of IFIP
- Klaus Dittrich was president of SI
- IfI members are serving
  - on the executive boards of societies and special interest groups
  - in major technical committees and steering committees

in our field

# Some Research Highlights





#### 3rd OOPSLA 1988

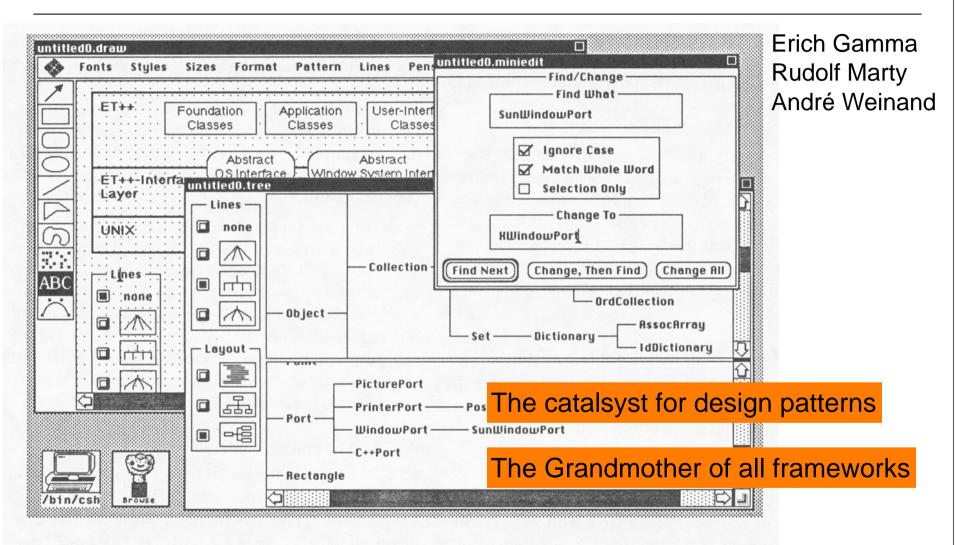
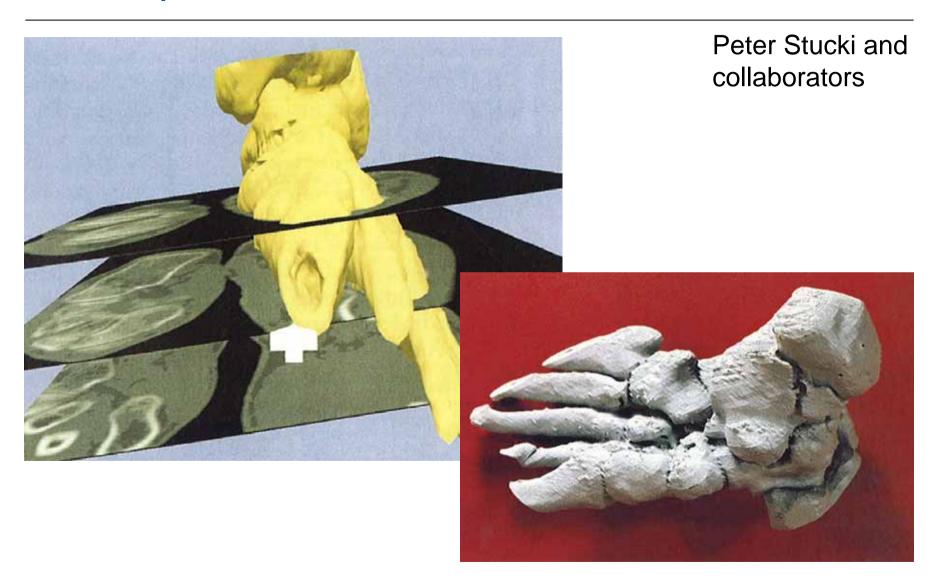


Figure 1: Some applications developed with ET++

# 3D Graphics and Reconstruction



#### **Object-oriented Databases**

# The Object-Oriented Database System Manifesto

Malcolm Atkinson University of Glasgow

David DeWitt University of Wisconsin

David Maier Oregon Graduate Center François Bancilhon Altaïr

Klaus Dittrich University of Zurich

> Stanley Zdonik Brown University

#### Abstract

This paper attempts to define an *object-oriented database system*. It describes the main features and characteristics that a system must have to qualify as an object-oriented database system.

We have separated these characteristics into three groups:

 Mandatory, the ones the system must satisfy in order to be termed an objectoriented database system. These are complex objects, object identity, encapsulation, types or classes, inheritance, overriding combined with late binding, extensi-

### **Embodied Al**



# Mining knowledge from large data sets

# research highlights

P. 84

Technical Perspective

Maintaining
Quality in the Face
of Distributed
Development

By James Herbsleb

P. 85

Does Distributed Development Affect Software Quality? An Empirical Case Study of Windows Vista

By Christian Bird, Nachiappan Nagappan, Premkumar Devenbu, Harald Gall, and Brendan Murphy

Communications of the ACM 52(8), 2009

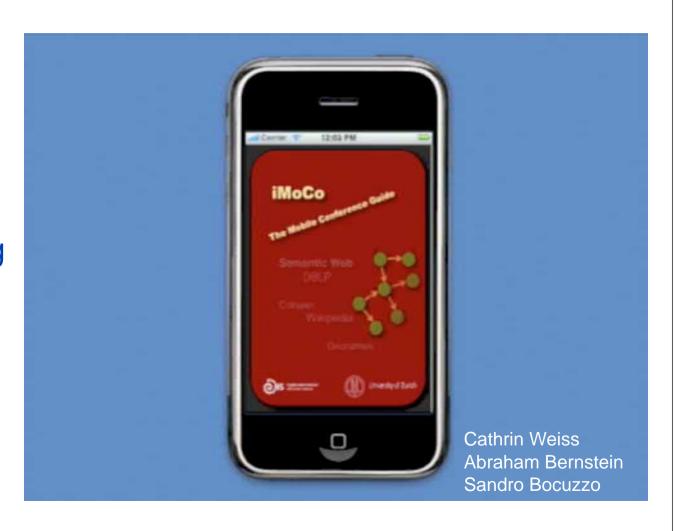
### Querying very large data sets on an iPhone

9 GB raw data

~250 million triples

Real-time querying

8 GB iPhone



#### Innovative Collaboration: Software & Finance



# IfI today: People

10 Tenured professors

5 Adjunct professors

~30 Part-time lecturers

17 Senior research associates / Postdocs

76 Assistants / PhD students

12 Technical and administrative staff

Home » \*\* » People

ifi Directorate

Phone Name

545.70\* #367\*2

First Name

Martin, Prof.

For appointments contact

Evelyne Berger

Tel: +41 44 63 54355 Fax: +41 44 63 56809



Name	First Name		Office	Phone
	Michael	dbtg	2.E.13	+41 4
	Abraham	ddis	2.D.06	+41 4
	Harald C.	sigiail	2.D.02	+41 4
	Martin	rerg	2.B.21	+41 4
	Michael	cl	2 8 02	+41 4

# IfI today: Funding

We gratefully acknowledge the continued funding support by UZH

But we also maintain a significant amount of self funding:

- > 20 M CHF over the past six years
- > 75 % of third party funding granted on competitive proposals



# IfI today: Research

Top tier publications

Best paper awards and dissertation awards

Key roles in major international conferences

On editorial boards / editor-in-chief of top tier international

journals

Exciting things are happening at IfI!





Probably not a straight road

#### Increase the number of assistant professors



Faculty of Economics, Business Administration and IT

The Department of Informatics at the University of Zurich seeks applications for four

**Assistant Professor positions** 

in

Information Systems
Software Quality
Cognitive Systems and Artificial Intelligence
Human-Oriented Robotics

subject to approval

Increase the number of assistant professors

Further develop research excellence

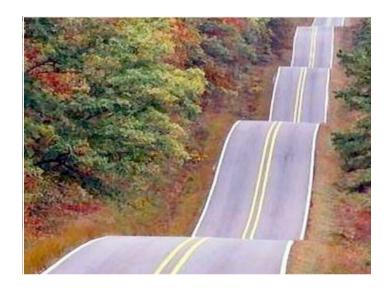


Many decision points ahead

Increase the number of assistant professors

Further develop research excellence

Increase number of graduates on all levels



Hopefully a not too bumpy road...

Increase the number of assistant professors

Further develop research excellence

Increase number of graduates on all levels

Advance IfI and sustain it as a player in the league of leading

informatics departments



And one that leads to the top.