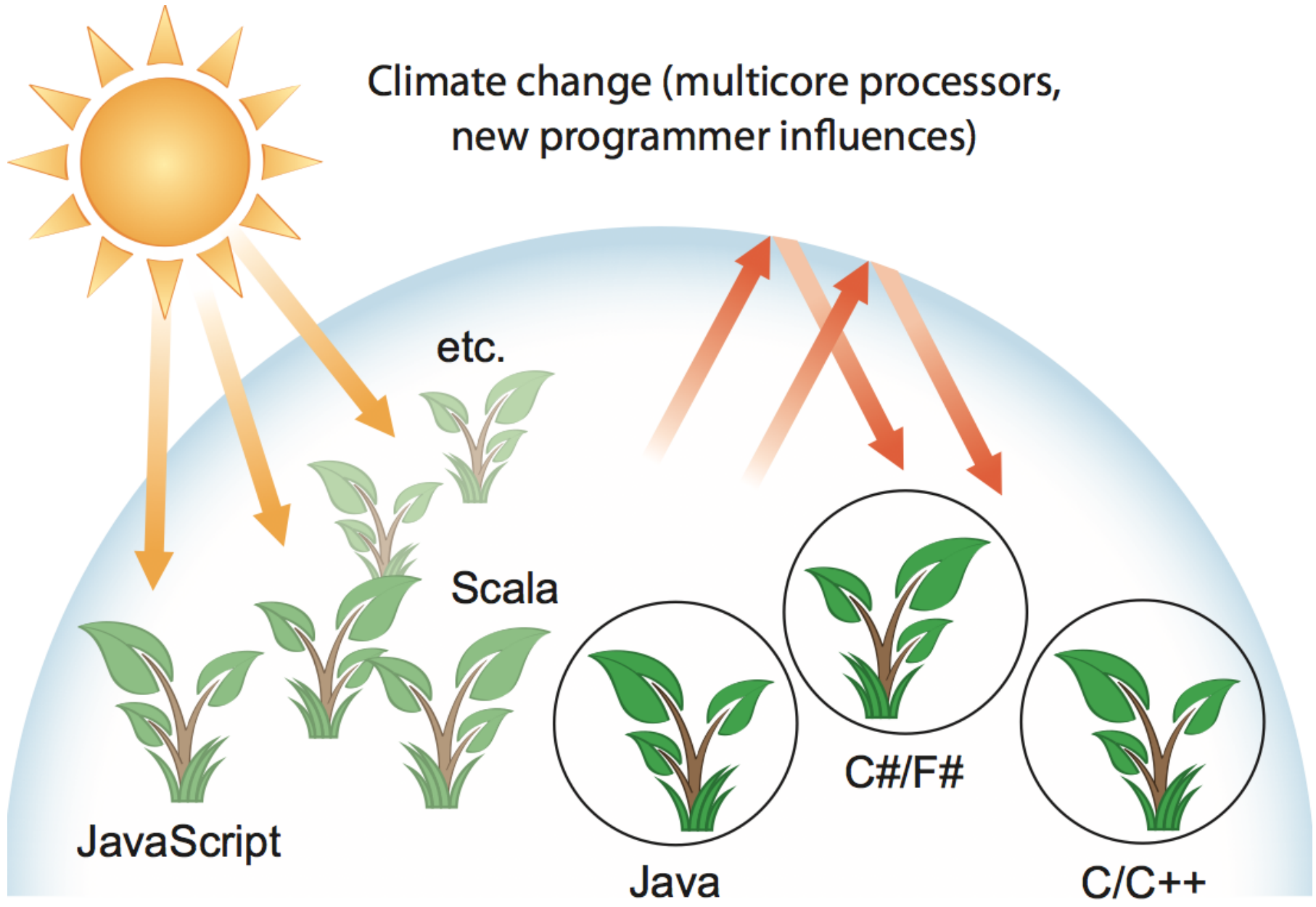


Programming Language Evolution 2014

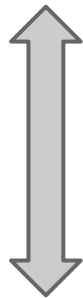
Welcome

Dominic Orchard, Raoul-Gabriel Urma, Alan Mycroft

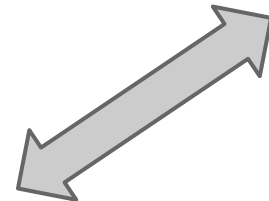
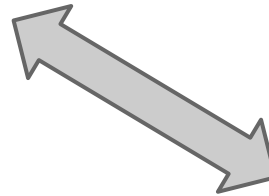
Climate change (multicore processors,
new programmer influences)



Language designers



Developers



Industry

Educators

Problems

- Language designers
 - How to quantify impact of a language change?
 - Is a new feature useful? Will it be adopted?
- Developers
 - How to support them in adopting newer idioms?
- Industry
 - How to reduce time maintaining old code?

Programme

10:25 - 10:30 PLE14 Opening

10:30 - 11:20 Full papers session (**Lecture Hall VIII**)

- Programming Language Feature Agglomeration
Jeremy Singer, **Callum Cameron** and Marc Alexander
- HERCULES/PL: The Pattern Language of HERCULES
Christos Kartsaklis and Oscar Hernandez

11:20 - 12:00 Talks session 1

- Experiences from adding reverse inheritance to Eiffel
Markku Sakkinen
- Hack: lessons learnt
Julien Verlaguet

12:00 - 13:30 Lunch

Programme (continued)

13:30 - 14:30 Keynote: Martin Odersky, The Evolution of Scala **Lecture Hall X**

14:30 - 15:30 Extended coffee break

15:30 - 16:10 Talks session 2 - **Lecture Hall VIII**

- Python 2 and 3 compatibility testing via optional run-time type checking

Raoul-Gabriel Urma

- Evolving Fortran types with inferred units-of-measure

Dominic Orchard

16:10 - 16:30 Discussion

16:30 End of Workshop

Thanks to the programme committee

Robert Bowdidge (Google)

Sophia Drossopoulou (Imperial College London, UK)

Kim Mens (Université catholique de Louvain (UCL), Belgium)

Jeff Overbey (Auburn University, AL, US)

Chris Parnin (Georgia Institute of Technology, AT, US)

Max Schaefer (Semmler Ltd., Oxford, UK)

Peter Sommerlad (IFS Institute for Software at FHO/HSR Rapperswil)

Alexander J. Summers (ETH Zurich, Switzerland)

Louis Wasserman (Google)