Esperanto, Polyglot, or Babel
The Future of Design Languages

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Bicycle Evolution

Drasine
1820

Velocipede/Boneshaker
1860

Penny-farthing
1870

Safety Bicycle
1880
State of the Art in 1887
The 1970s
2000: Rear-Suspension Bikes
## Hardware Description Languages

<table>
<thead>
<tr>
<th>Language</th>
<th>1960s</th>
<th>1970s</th>
<th>1980s</th>
<th>1990s</th>
<th>2000s</th>
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<tr>
<td>Reed</td>
<td>1960s</td>
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<td>DACAPO III</td>
<td>1970s</td>
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<td>VHDL</td>
<td>1980s</td>
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<td>SystemC</td>
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<td>SystemVerilog</td>
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Languages:
- M
- CDL
- DDL
- ISP
- PMS
- AHPL
- HILO
- ELLA
- ISPS
- KARL
- ZEUS
- UDL/I
- SPICE
- CONLAN
- Vera
- Lava
- SpecC
- Esterel
- Bluespec
- PSL
- SystemVerilog
Panelists

- **Arvind** — MIT
  Inventor of Bluespec

- **Gael Clave** — Texas Instruments, Nice
  Helped to develop TI’s OMAP platform, avid Esterel user

- **Rainer Doemer** — University of California, Irvine
  Worked on SpecC (with Gajski)

- **Michael Kishinevsky** — Intel
  Helped to develop Esterel V7 (with Berry)

- **Karen Pieper** — Tabula
  Chair, IEEE P1800 SystemVerilog Working Group

- **Klaus Schneider** — University of Kaiserslautern
  Developer of the Quartz synchronous language

- **Satnam Singh** — Microsoft Research, Cambridge
  Developed Lava (with Sheeran and Claessen)