GF Summer School
RĪGA, Latvia
14 – 25 August 2017
Fifth edition

• Gothenburg, Sweden  2009
• Barcelona, Spain  2011
• Bavaria, Germany  2013
• Gozo, Malta  2015
# Programme

**Week 1 (August 14–18): Introduction to GF and multilingual grammar programming**

<table>
<thead>
<tr>
<th></th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
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</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Registration</td>
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<tr>
<td>09:00</td>
<td>Opening;</td>
<td>GF</td>
<td>Resource</td>
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<td>Wide-coverage grammars and</td>
</tr>
<tr>
<td>12:30</td>
<td>Introduction to GF (Ch. 2)</td>
<td>programming language (Ch. 3 &amp; 4)</td>
<td>Grammar Library (Ch. 5 &amp; 9)</td>
<td>Application grammars</td>
<td>machine translation; Neural MT at Tilde</td>
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<td></td>
<td>Lunch break</td>
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<tr>
<td>14:00</td>
<td>Hands-on:</td>
<td>Hands-on:</td>
<td>Hands-on:</td>
<td>Hands-on:</td>
<td>Project proposals</td>
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<tr>
<td>17:30</td>
<td>working in the cloud</td>
<td>working in the shell; GF for Python programmers</td>
<td>supervised individual work</td>
<td>supervised individual work</td>
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**Weekend:** Excursion to [Kuldīga](#) and [Great Ķemeri Bog](#), [Riga City Festival 2017](#), etc.
# Programme

**Week 2** (August 21–25): Advanced work in specialised tracks

<table>
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<th>Mon</th>
<th>Tue</th>
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<th>Thu</th>
<th>Fri</th>
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<tbody>
<tr>
<td><strong>09:00</strong> Mechanics of GF;</td>
<td>GF and other language resources: UD, WordNet,</td>
<td></td>
<td>Industrial cases; Advanced problem solving</td>
<td>Participant presentations</td>
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<tr>
<td>Embedded</td>
<td>FrameNet, AMR</td>
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<td>Closing discussion</td>
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<tr>
<td><strong>12:30</strong> Embedded grammars,</td>
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<td>web and mobile applications</td>
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<td><strong>Lunch break</strong></td>
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<tr>
<td><strong>14:00</strong> Work on projects</td>
<td>Work on projects</td>
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<td>Work on projects</td>
<td>Participant presentations</td>
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<tr>
<td><strong>17:30</strong> Work on projects</td>
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<td><strong>19:00</strong></td>
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<td>Dinner</td>
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</table>

Coffee breaks: 10:30–11:00 and 15:30–16:00
Some suggestions for lunch can be found [here](#).
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution, Other</th>
<th>Project/Research Area</th>
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</thead>
<tbody>
<tr>
<td>Krasimir Angelov</td>
<td>U Gothenburg Digital Grammars</td>
<td>The mechanics of GF</td>
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<tr>
<td>Jean-Philippe Bernardy</td>
<td>U Gothenburg, CLASP</td>
<td>Coq semantics for GF</td>
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<tr>
<td>Markus Forsberg</td>
<td>U Gothenburg, Språkbanken</td>
<td>Lexicon building</td>
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<tr>
<td>Normunds Grūzītis</td>
<td>U Latvia, AiLab, LETA</td>
<td>GF in a full stack of LT</td>
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<td>AMR-to-text generation via GF</td>
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<tr>
<td>Thomas Hallgren</td>
<td>U Gothenburg Digital Grammars</td>
<td>GF web services</td>
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<tr>
<td>Kaarel Kaljurand</td>
<td>Nuance Communications</td>
<td>Grammar-based speech applications</td>
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<td>GF backed wikis (e.g. AceWiki GF)</td>
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<td>CNL for Semantic Web (e.g. ACE)</td>
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<tr>
<td>Prasanth Kolachina</td>
<td>U Gothenburg</td>
<td>Universal Dependencies: gf2ud &amp; ud2gf</td>
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<tr>
<td>Hans Leiß</td>
<td>LMU Munich</td>
<td>Modular and scalable grammar writing</td>
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<tr>
<td>Inari Listenmaa</td>
<td>U Gothenburg</td>
<td>GF tutorial</td>
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<td>Constraint Grammar</td>
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<tr>
<td>Michal Měchura</td>
<td>Masaryk University</td>
<td>GF-based conceptual authoring</td>
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<tr>
<td>Aarne Ranta</td>
<td>U Gothenburg Digital Grammars</td>
<td>GF tutorial</td>
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<td>MT for consumers and producers</td>
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<tr>
<td>Jordi Saludes</td>
<td>UPC Barcelona</td>
<td>TBA</td>
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<tr>
<td>Raivis Skadiņš</td>
<td>Tilde.com</td>
<td>Neural MT for <em>smaller</em> languages</td>
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<tr>
<td>Christina Unger</td>
<td>Mercury.ai</td>
<td>GF in a conversational AI industry</td>
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</table>
GF in a Full Stack of Language Technology

- Universal Dependencies: 3K → +10K
- PropBank: 0 → 10K
- FrameNet: 5K → +10K
- AMR: 0 → 10K
- DBpedia
- Universal Dependencies: 3K → +10K
- Lexicon: 250K
- WordNet
- GF
- Text corpora
- Balanced text corpus: 5M → 10M
GF in a Full Stack of Language Technology

Universal Dependencies: $3K \rightarrow +10K$

PropBank: $0 \rightarrow 10K$

FrameNet: $5K \rightarrow +10K$

Universal Dependencies: $3K \rightarrow +10K$

Lexicon: $250K$

WordNet

Text corpora

Balanced text corpus: $5M \rightarrow 10M$
GF in a Full Stack of Language Technology

Universal Dependencies: 3K → +10K
PropBank: 0 → 10K
FrameNet: 5K → +10K
AMR: 0 → 10K

Text corpora
Balanced text corpus: 5M → 10M
GF in a Full Stack of Language Technology

Applications that make use of abstract syntax/meaning representations

AMR: 0 → 10K
PropBank: 0 → 10K
Universal Dependencies: 3K → +10K
FrameNet: 5K → +10K
DBpedia

Lexicon: 250K
WordNet

Text corpora
Balanced text corpus: 5M → 10M
Introduction round

• Name
• Country (-ies)
• Native language (-s), second/foreign language (-s)
• Affiliation, position
• Background (briefly)
• Special interests / expectations
• etc.
Represented countries

- China
- Germany
- Ireland
- Italy
- Netherlands
- Latvia
- Czechia (?)
- Turkey
- USA
- Sweden
- India
- Canada
- Estonia
- Lithuania
- Mexico
- Brazil
- Kenya
- Ukraine
- Pakistan
Represented languages

- Irish
- Turkish
- Lithuanian
- Hindi
- Latvian
- Russian
- English
- French
- Polish
- Czech
- Punjabi
- Urdu
- Swedish
- Mandarin
- Cantonese
- Italian
- Albanian
- Swahili
- Finnish
- Estonian
- German
- Ukrainian
- Spanish
- Portuguese
- Catalan
- Scottish
- Latin