Ott: Effective Tool Support for the Working Semanticist

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Defining real programming languages rigorously is a rarely achieved challenge, partly due to scale. Ott (ICFP’07) is a tool to ease the task. It translates concise and readable ASCII source into LaTeX, Coq, HOL, and Isabelle/HOL. Ott can be used for substantial developments, e.g. OCaml

Ott source for an untyped λ-calculus

```
defname defn
```

** substitutions

```
defn
```

---

[also free variable fn, subgrammar predicates, fancy binding structures, OCaml boilerplate, parsing and filtering, list forms, context grammars, simple context grammars, ...]

Generated LaTeX

```
```

A more typical rule (from OCaml), in Ott and LaTeX

```
```

---

Generated HOL

```
```

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http://www.cl.cam.ac.uk/users/pes20/ott