Guile and the Web
Greetings!

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Goal
Shameless promotion
To inform, and to entertain
Agenda

Brief intro
Live-hack a twitter-alike
Forward-looking statements
What is Guile?
The GNU extension language
Implementation of Scheme
What is Scheme?

A pretty sweet programming language

Python: foo("a", "b")  
Scheme: (foo "a" "b")

Python: 1 + 2 + 3  
Scheme: (+ 1 2 3)
More examples

```python
beer = "tasty"
(define beer "tasty")
def poke(whom):
    return "hey!"
(define (poke whom) "hey!")

Alternately:
(define poke
 (lambda (whom) "hey!"))
```
Guile 2.0
Bytecode virtual machine
Compiler, and compiler toolkit
Module set: threads, ffi, web, OOP
Fantastic REPL
Much of this is new
Awesome new REPL

Debugger on error
Profiler
Tracing and tracepoints
Breakpoints
Source stepping
Dynamic FFI

Bind C libraries without C code

Seatbelts not included
Prompts

Composable, delimited continuations

catch, throw implemented in Scheme

More powerful than call/cc

Process abstractions in userspace
Others

Elisp work, R6RS support, LALR and
PEG parser generators, SSAX,
sxml-match, statistical profiler,
futures, code coverage...
Web stack

HTTP, URI parsers and serializers

WSGI-like abstraction for web programs

Now that we have web modules, let's make a CPAN, finally
Peeple

[hack goes here]
The Future

CPAN

Native compilation

2.2, 2.4, ...
Guile & GNU
Unix or the Lisp Machine?
Guile & Emacs

Implement Elisp for Guile runtime

Allow Scheme (& JS, Lua) in Emacs

No rewrites

Status
Guile & You

Give it a hack!
Questions?

www.gnu.org/software/guile
wingolog.org/git/skeleton.git
wingolog.org/git/peeple.git

Thanks for listening!