Sage -- Welcome / Status report

Welcome and Opening Remarks

Welcome to Sage Devel Days 1 (aka Sage Days 8.5)!

MISSION STATEMENT: Create a viable free open source alternative to Magma, Maple, Matlab, and Mathematica.

Goals for 2008

1. Port Sage to Solaris, MSVC 32/64-bit Windows, and 64-bit OS X. A "Sage lite" will come out of this.
2. Increase doctest coverage to 100%.
3. Major work on core library: combinatorics (sage-combinat), modular forms (major new NSF FRG grant)
4. Establish new directions: statistics, quantitative finance, native symbolic calculus

This is *NOT* the year for adding more external packages to Sage! We will be *extremely conservative* for the rest of the year. Next year will be different. Adding new packages is VERY BAD when porting is our number one priority.

Sage continues to grow

1. Save-devel has 497 subscribers.
2. Save-support has 552 subscribers.
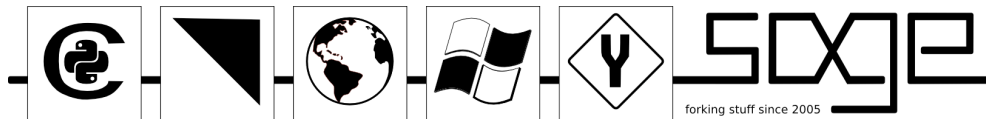3. Roughly 25-50 contributors to each new release.

"Forking stuff since 2005"

1. Cython -- compiled Python; project is going very strong
2. MPIR -- multiprecision integer and rationals

eMPIRe

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Sage is getting much more support

1. Microsoft Research
2. Google
3. DoD
4. NSF

Rumors of some sort of commercial presence...(?) Interest from Boeing, REvolution, ...?

There will be over **ten people** who are funded to work on Sage fulltime all summer.
And I'm **not** one of them!

Workshops

SEVEN Sage Days Workshops in 2008!!

Upcoming workshops:

1. Sage Days 9: Vancouver
2. Sage Days 10: France
3. Sage Days 11: Austin, TX
4. Sage Days 12: San Diego

This Workshop

Themes

1. Cython
2. Exact Linear Algebra
3. Porting Sage to Windows
4. Modular Forms
5. Parallel Computation

Fully funded by the NSF and DoD. Thanks!

General Schedule Template

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11:00am -- 12:00pm: only one talk each day, at 11am.
                    Please please be there if at all possible!
12:00pm -- 1:30pm: lunch
 1:30pm -- 4:00pm: sprints and mini-talks (on day 1 each
                    project group should get organized)
 4:00pm -- 5:30pm: status reports in MEB 238 from each project group
 5:30pm -- 7:00pm: dinner
 7:00pm -- midnight: informal evening talks; coding sprints in MEB 238
```

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                              or coffee shops (e.g., Solstice on the ave!) on projects
```

Special events on Saturday and Sunday, and Monday night.

TODAY

```
10:00am - 10:30am:  William Stein -- Welcome and opening remarks / status report t
10:30am - 11:00am:  Bagels, Fruit, and Coffee
11:00am - 12:00pm:  Dan Gindikin -- The Joy of Pex  (a Cython talk)
12:00pm -  1:30pm:  Lunch
 1:30pm -  4:00pm:  Informal Coding sprints
 4:00pm -  5:00pm:  Coding Sprint Organizational Session / Status
 5:30pm -  7:00pm:  Dinner
 7:00pm - 12:00am:  Coding Sprints at MEB 238, Solstice, etc.
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