

Giving the Summer a Bounce

Google Summer of Code at Samba

Kai Blin

Samba Team

Campus Party 2007



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About Myself.

- ▶ 24 years old
- ▶ German
- ▶ Grad student of Computational Biology

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Experience With Software Development

Wine Developer



- ▶ Work on NTLM authentication for GSoC 2005
- ▶ Work on NTLM sign/seal for GSoC 2006
- ▶ Winsock networking
- ▶ DirectPlay

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Experience With Software Development

Samba Team Member



- ▶ Work on Samba4 winbind
- ▶ Wine/Samba cooperation
- ▶ More about this later...

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- ▶ Google's way to sponsor Open Source projects

Great way to...

- ▶ get into Open Source development
- ▶ learn new things
- ▶ meet cool people

Participants

- ▶ Started in 2005 with ca. 400 students
- ▶ 2006 had 600 students
- ▶ 2007 has 900 students

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Links

- ▶ Mailing list <http://groups.google.com/group/google-summer-of-code-announce>
- ▶ Podcast <http://feeds.feedburner.com/GoogleSummerOfCodePodcasts>
- ▶ Blog <http://googlesummerofcode.blogspot.com/>

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What It Is About

- ▶ Unix / Linux servers in a Windows network
- ▶ Network logons
- ▶ Network file sharing done right

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Background

- ▶ Started in 1992 by Andrew Tridgell
- ▶ Developed by the Samba Team
- ▶ Current version is Samba 3.0.25b
- ▶ Next version will be GPLv3 licensed

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- ▶ PAM integration
- ▶ NSS integration
- ▶ Credential caching

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- ▶ Created 1500 lines of C code
- ▶ Learned about Unix IPC

GSoC 2006 - Wine

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- ▶ Extended work done in 2005
- ▶ Learned how **not** to do cryptography

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Samba4

- ▶ Development branch of Samba
- ▶ Playground to try new features
- ▶ Clean redesign of established features

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Testing

- ▶ Automated test suite
- ▶ Run against Samba and Windows
- ▶ Builds on many different setups

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GSoC 2005

The Summer of Tax

- ▶ First GSoC ever.
- ▶ Fun with the IRS.
- ▶ Caotic, but fun.

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- ▶ Sign-up via a web application. Shiny.
- ▶ Much more organized, still a little rough around the edges.
- ▶ Still fun.

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GSoC 2007

Getting Really Good At This

- ▶ Pretty smooth
- ▶ "Warm-up" phase between acceptance and starting to code
- ▶ Fun.
- ▶ Still going.

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Before Applications Open

- ▶ Pick potential mentoring organizations.
- ▶ Go hang out in their IRC channels
- ▶ Answer questions on their mailing lists/forums

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While Writing The Application

- ▶ Check the proposed projects
- ▶ Talk to the organization's developers about your ideas
- ▶ Make sure to check if they think your application is doable before submitting.

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Tips For Writing The Application

- ▶ Use your own words
- ▶ Explain why *you* are the right person to do it
- ▶ Offer ideas on how it could be done
- ▶ Talk to your mentoring organization

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During The Summer

- ▶ Talk to your mentor regularly
- ▶ If there are problems, ask
- ▶ If you get stuck, ask your mentor
- ▶ You are not expected to know everything

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How Not To Do It

Spot The Error

"I want to implement DX9 in Wine"

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"I want to implement DX9 in Wine"

- ▶ Not a real application

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"I want to implement DX9 in Wine"

- ▶ Not a real application
- ▶ Feature already works

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How Not To Do It

Cut & Paste Is Bad

- ▶ Looks like you didn't think yourself
- ▶ Mentoring orgs want you to show own ideas

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- ▶ Apply for Google Summer of Code 2008.
- ▶ GSoC is also about communication.

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