



Embedded Java GUI 嵌入式Java 图像介面

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What is Kaffe?

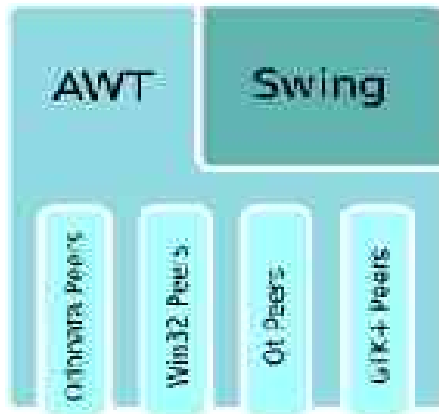
什么是 Kaffe?

- Started from 96 by Tim Wilkinson
- A opensource java VM also work with Classpath
- Well documented and GPL
- 始创于 96 年由 Tim Wilkinson 成之
- 是一开源的 Java 虚拟机同时能使用 Classpath
- 有良好的文档记录和用 GPL 协议发行

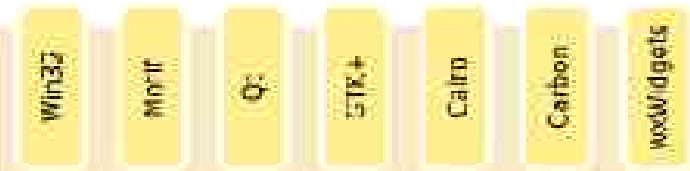
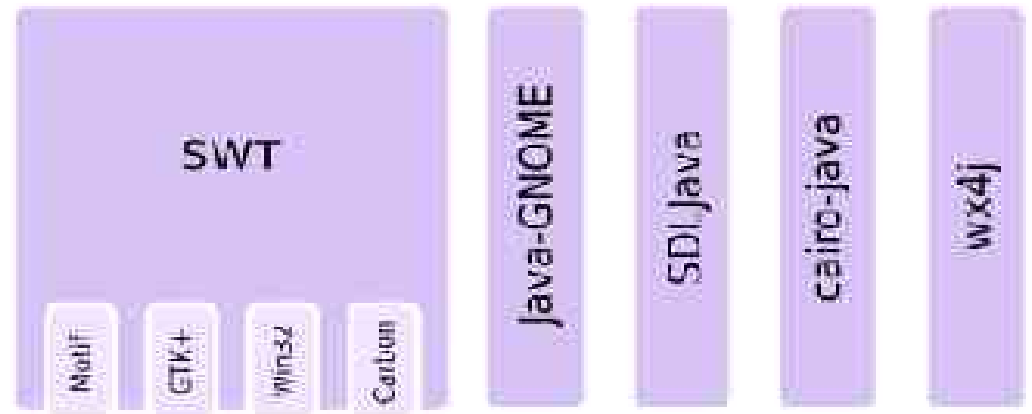
GUI Toolkits for the Java™ Platform

Java Applications

Core Libraries



Third-Party Libraries



Windowing System

Operating System

Hardware



Kaffe.org - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://www.kaffe.org/

Firefox Help Firefox Support Plug-in FAQ News awt implementation

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[Compatibility](#)
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Kaffe.org News

For announcements, see the [kaffe-announce mailing list archives](#).

April 5, 2005

Kaffe 1.1.5 has been released. This is the new 'development' releases. [See the announcement.](#)

[Kaffe Weekly News Archive](#)

Latest Release

Download the source code here:

Latest Development Release (April 5, 2005)

[kaffe-1.1.5.tar.gz](#)

Kaffe is already distributed in package form with many Linux and BSD distributions, including Redhat, Mandrake, SuSE, Debian

What is Kaffe?

- Kaffe is a clean room implementation of the Java virtual machine, plus the associated class libraries needed to provide a Java runtime environment. The Kaffe virtual machine is free software, licensed under the terms of the GNU General Public License.
- Kaffe is a great choice as a base

Done

Benefit of Kaffe

Kaffe 的好处

- OpenSource VM can modify the way we want
- Portable and Scalable
 - 50+ platform
- 开源的虚拟机可以让我们改变当中的功能
- 可移植性强和大小可以改变
 - 现支持 50 多个平台

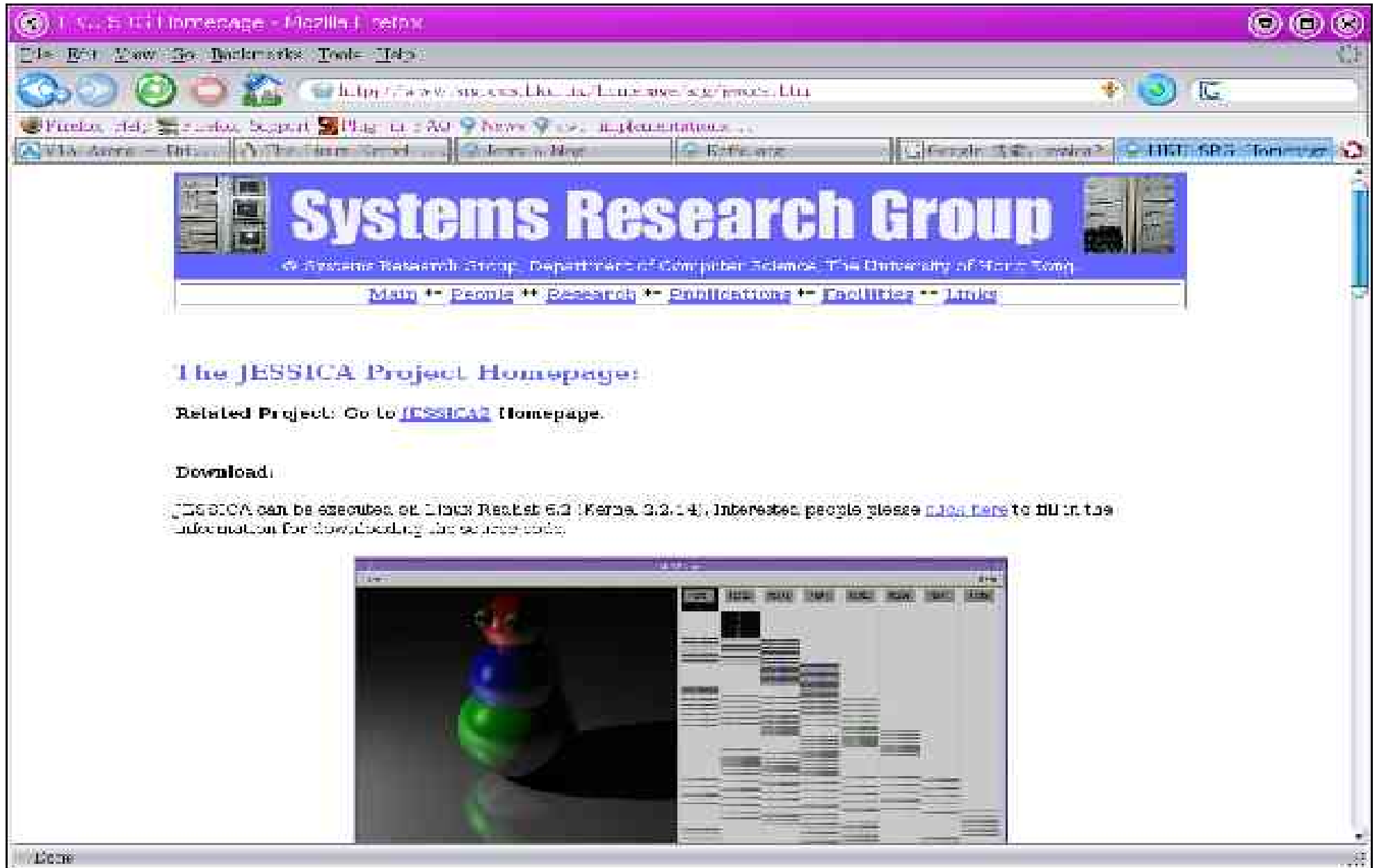
What Kaffe is NOT?

什么 Kaffe 不能做？

- Different GUI Framework reduce portability
- Swing is not completely working on all platform
- 不同的图像平台把移植能力降低
- Swing 都不能完全在不同平台下实现

Other VM

- Jessica2
- RVM (Jikes)
- KVM
- too many



What is Directfb?

什么是 Directfb?

- Hardware accelerate framebuffer lib
- Provide software abstraction if hardware is absent
- Input and multiple applications memory handle
- 显示硬件加速的支持
- 提供软件虚拟操作
- 提供多个应用程序同时运行



Google Search

directfb.org • Main • Screenshots

Main

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- Downloads
- Mailing Lists
 - CVS
 - Java/OpenGL
 - Java/S
- Old Archives
- Support
 - Graphics
 - OpenGL
 - Media
- About

Documentation

- User Manuals
 - README
 - FAQ
- API Reference
 - DirectFB
 - Hardware/OpenGL
- Tutorials
- Architecture

Development

- CVS
 - Downloads
 - Snapshots
- Bug Tracking
 - Report
- Plans & Ideas

Screenshots

1 2

DirectFB_3D_Windows3



Demo of the new TextureTriangles() method using existing windows as textures (updated in real time)

DirectFB_3D_Windows2



Demo of the new TextureTriangles() method using existing windows as textures (updated in real time)

Benefit of using Directfb

Directfb 的优点

- Hardware accelerated: Matrox, nVidia, ATI, VIA..
- Transparent layers
- SDL compatible
- 硬件加速支持 : Matrox, nVidia, ATI, VIA...
- 透明层的支持
- SDL 兼容

What is Odonate?

什么是 Odonate?

- <http://odonata.tangency.co.uk>
- 100% Java peer AWT
- Framebuffer by pass native layer

BeanShell

- Small embedded able scripting interpreter
- Dynamically develop application and debug
- Allow runtime java scripting development
- 小型的嵌入式脚本解释器
- 动态开发应用软件和除错
- 容运行时用 java 脚本开发

Install Jikes

安装 Jikes

- Jikes jikes-1.22.tar.bz2 from IBM
- `$> wget ftp://www-126.ibm.com/pub/jikes/1.22/jikes-1.22.tar.bz2`
- `$> tar jxvf jikes-1.22.tar.bz2`
- `$> cd jikes-1.22`
- `$> ./configure --prefix=/usr`
- `$> make`
- `$> sudo make install`

Install Kaffe

安装 Kaffe

- 2) Download Kaffe cvs or 1.1.4 (.5 may not work)
- `$> tar jxvf kaffe-cvs-head-snap.tar.bz2`
- `$> cd kaffe`
- `$> ./configure --with-kaffe-x-awt`
- `$> make`
- `$> make install`

Install fusion

安装 fusion

- `cvs -d:pserver:anonymous@cvs.directfb.org:/cvs/directfb login`
- `cvs -d:pserver:anonymous@cvs.directfb.org:/cvs/directfb -z3 co linux-fusion`
- `cd linux-fusion`
- `sudo cp linux/include/linux/fusion.h /usr/include/linux/`
- `sudo mkdir /dev/fusion`
- `sudo mknod /dev/fusion/0 c 252 0`
- `sudo make install`

Install Directfb

安装 Directfb

- wget <http://www.directfb.org/downloads/Core/DirectFB-0.9.22.tar.gz>
- tar -zxvf DirectFB-0.9.22.tar.gz
- cd DirectFB
- ./configure --enable-sdl --enable-multi --enable-zlib
- make install

Install Kawt

安装 Kawt

- 3) Directfb kawt download
- `$> cvs -d:pserver:anonymous@cvs.directfb.org:/cvs/directfb -z3 login`
- `$> cvs -d:pserver:anonymous@cvs.directfb.org:/cvs/directfb -z3 co -P kawt`
- `$> cd kawt`
- `$> ./configure --with-jni=/usr/local/kaffe/include`

Install Odonate and BeanShell

安装 Odonate 和 BeanShell

- Basically you put your jar file into the classpath will work
- Odonate take some runtime variable to activate
 - Replace the graph engine

