



aidworld
humanitarian ict

Contents

- Introductions
- Content Filtering
- Ideas
- Other Projects

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CTO of Aidworld

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www.aidworld.org

Mission

Using ICTs to

contribute to the eradication of poverty,
suffering and conflict

and

make tangible improvements to the lives of
ordinary people across the developing world.



Overview

- UK based not-for-profit organisation
- Founded in 2002
- Team of 12 (6 staff, 6 volunteers)
- Programs:
 - Low bandwidth
 - Appropriate Computing Platform
 - Sectoral Support
- Funding:
 - British Red Cross Society
 - DfID
 - DTI
 - Gatsby

Content Filtering

Key Objectives

- Support Internet use with:
 - low bandwidth
 - intermittent connections
 - over-used connections
- Increase access to PDFs
- Support Searching

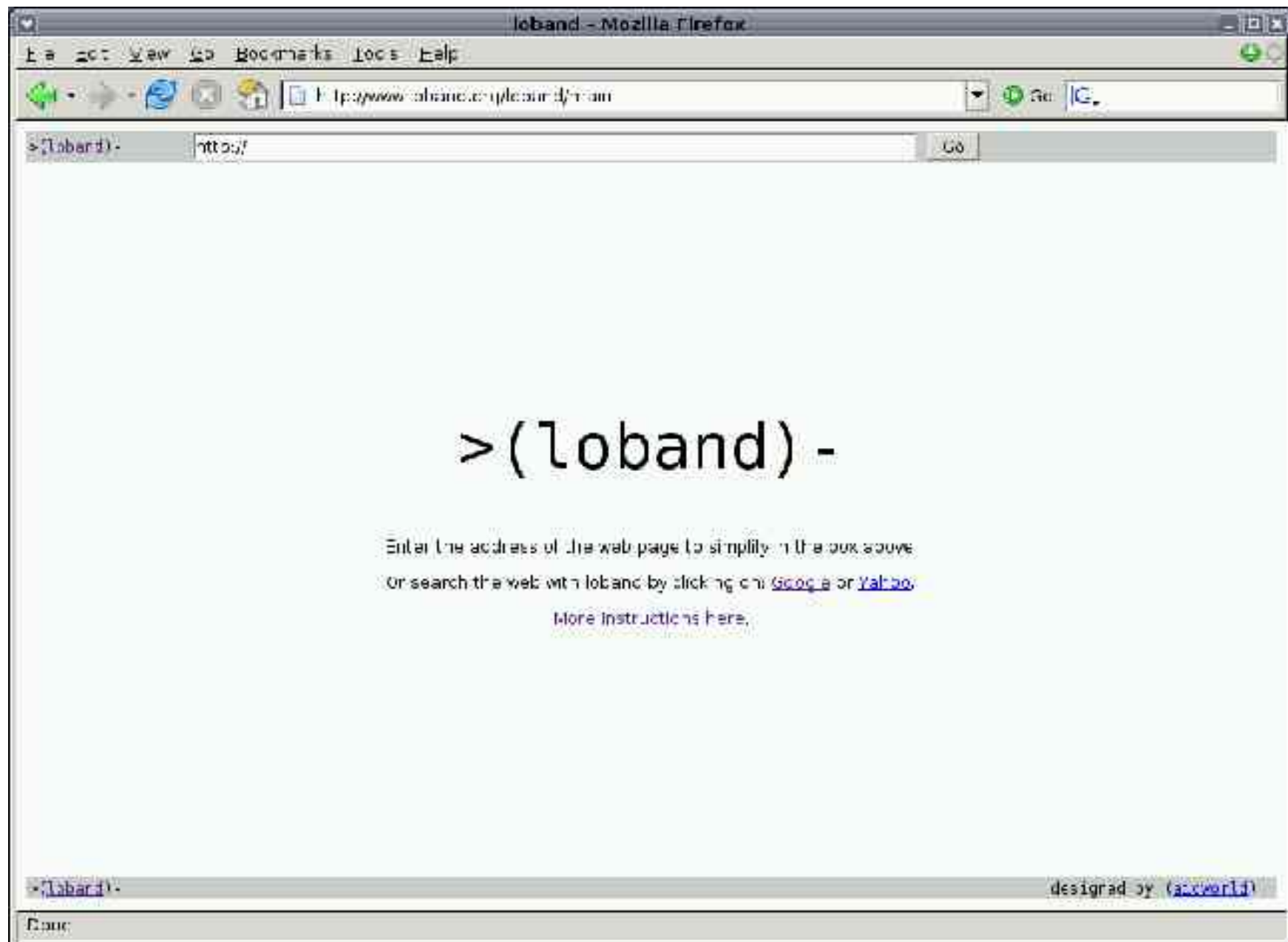
Loband - Overview



- Simplification service
- Low bandwidth
- Reduce page size

- 5 times faster
- 80% reduction in bandwidth use





Loband

Original: 260k

Filtered: 11k



The screenshot shows the original BBC News website layout. The main headline is "Dismay at Bali bombing sentence" with a sub-headline "The US says it had no voice in the sentence given to an Indonesian cleric over the Bali bombings." Below this, there are several smaller news items, including "Child sex trial opens in France", "Fossil fuel: nears final judgement", and "Land saw of 2014 weather patterns". The layout is dense with text, images, and navigation links.



The screenshot shows the filtered version of the BBC News website. The layout is significantly sparser, focusing on the main headline "Dismay at Bali bombing sentence" and a few other key items. The navigation and sidebars are reduced, leaving a clean, focused view of the primary news content.

- News Front Page
- World
 - Africa
 - Americas
 - Asia-Pacific
 - Europe
 - Middle East
 - South Asia
 - From Our Own Correspondent
 - UK
 - England
 - Northern Ireland
 - Scotland
 - Wales
 - Business
 - Politics
 - Health
 - Education
 - Science/Nature
 - Technology
 - Entertainment
 - Have Your Say
 - Magazine

World
 Last Updated: Thursday, 3 March 2011, 16:50 GMT



Dismay at Bali bombing sentence
 The US and Australia voice dismay at the sentence given to an Indonesian cleric over the Bali bombings.
 * Verdict leaves no-one satisfied
 * Protest: Abu Bakar Bakaryassin
 * Your Say: Justice done?

- OTHER TOP STORIES**
- * Mugli wins go Zimbabwe's pol
 - * Car bombs target Iraq military
 - * Acquittals in Pakistan gang rape
 - * Syria looks to Riyadh for support
 - * China blast kills schoolchildren
 - * US backing down in abortion row

Child sex trial opens in France
 More than 60 alleged paedophiles go on trial in Angers, France, in one of the country's biggest court cases.

Fossett nears flight record goal
 Adventurer Steve Fossett reaches the home stretch of his attempt to fly solo, non-stop around the globe.

- ALSO IN THE NEWS**
-  US talk show host fights Jackson judge's gagging order
 -  How shooting 'virtual' monsters can ease a child's pain

Land search will a resettlement plan finally beat terrorism in Ethiopia?

'Cedar revolution' Lebanon overcomes sectarianism to call for independence

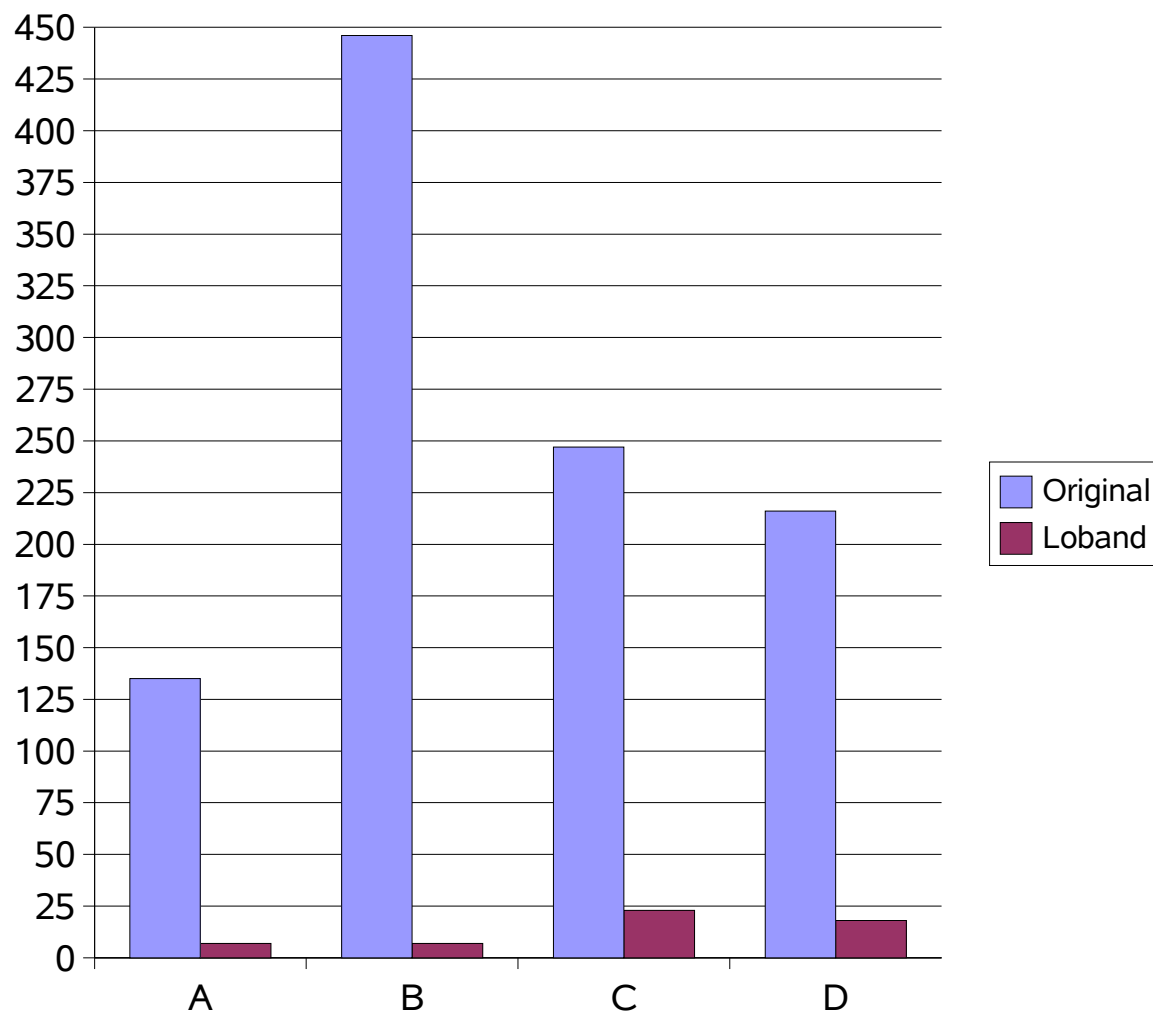
- WORLD SPORT**
- * Boxing: Lison confirms return
 - * Football: legendary coach dies

- AROUND THE WORLD NOW**
- AFRICA**
 - * Arrests at Kenyan trade meeting
 - * UN denies killing Congo civilians
 - MIDDLE EAST**
 - * Eastern Province Sauris to vote
 - * Car bomb explodes in W Bank
 - ASIA/PACIFIC**
 - * China's voice concern over the withdrawal from Gaza

Average Size of Journals Web Pages

- Original - 2 minutes
- Filtered - 10 seconds

	Original (kB)	Loband
A	135	7
B	446	7
C	247	23
D	216	18



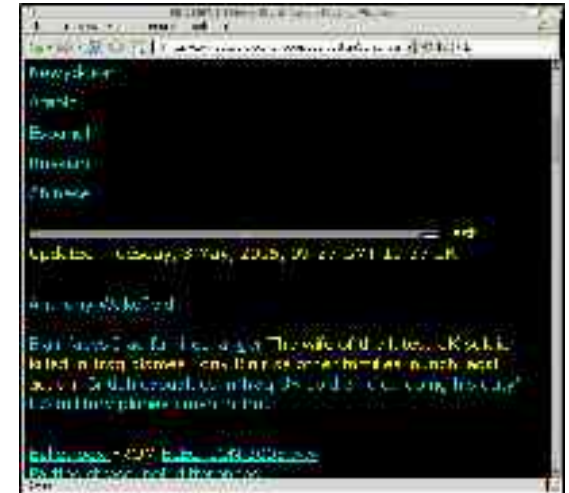
Lynx

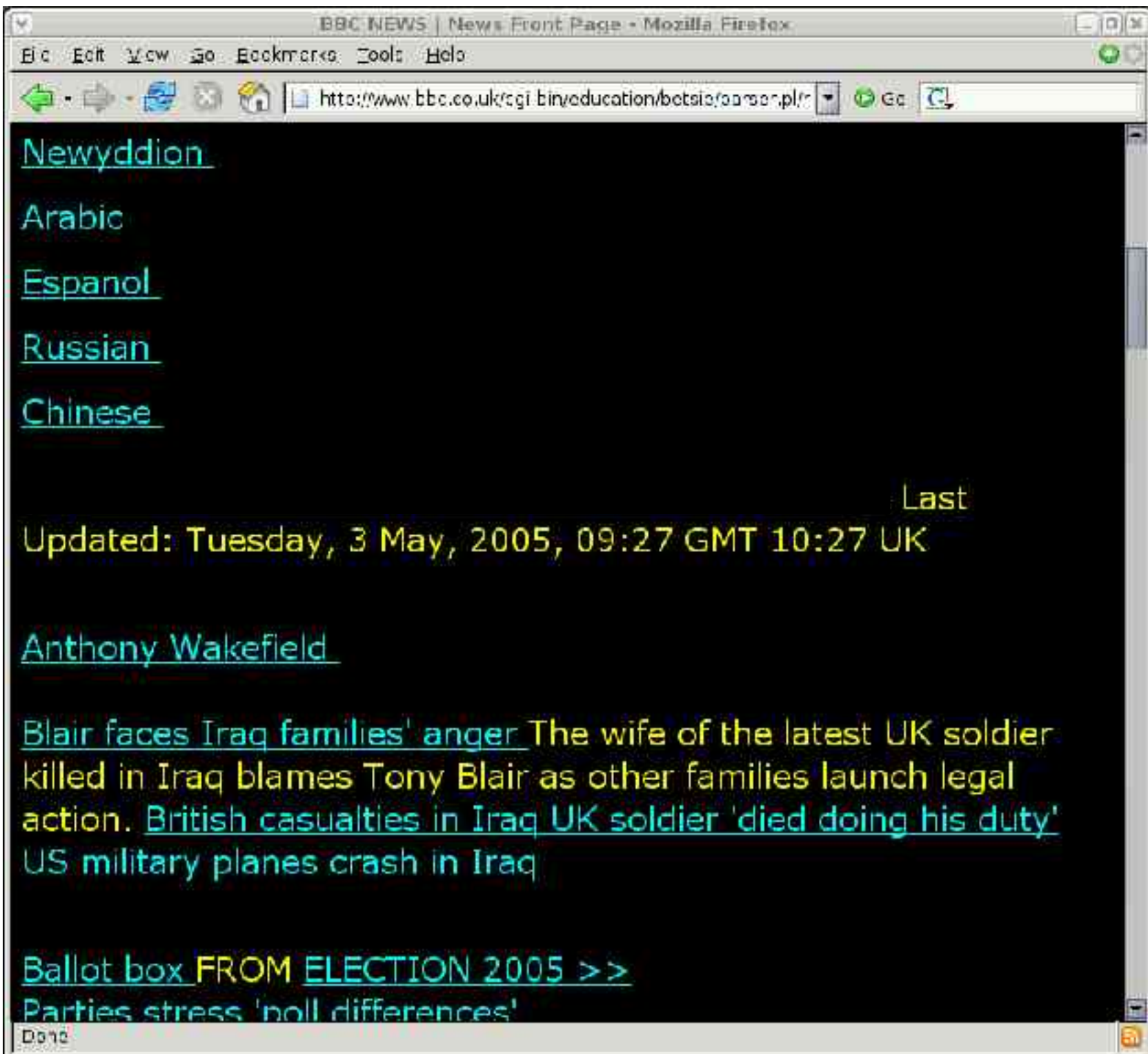


Loband



Betsie





[Newyddion](#)

[Arabic](#)

[Espanol](#)

[Russian](#)

[Chinese](#)

Last

Updated: Tuesday, 3 May, 2005, 09:27 GMT 10:27 UK

[Anthony Wakefield](#)

[Blair faces Iraq families' anger](#) The wife of the latest UK soldier killed in Iraq blames Tony Blair as other families launch legal action. [British casualties in Iraq UK soldier 'died doing his duty'](#)
[US military planes crash in Iraq](#)

[Ballot box FROM ELECTION 2005 >>](#)

[Parties stress 'poll differences'](#)

Done

What Loband Does:

- Compression
- Replace images / objects
- Reduce formatting
- Remove Javascript
- Rewrite Links

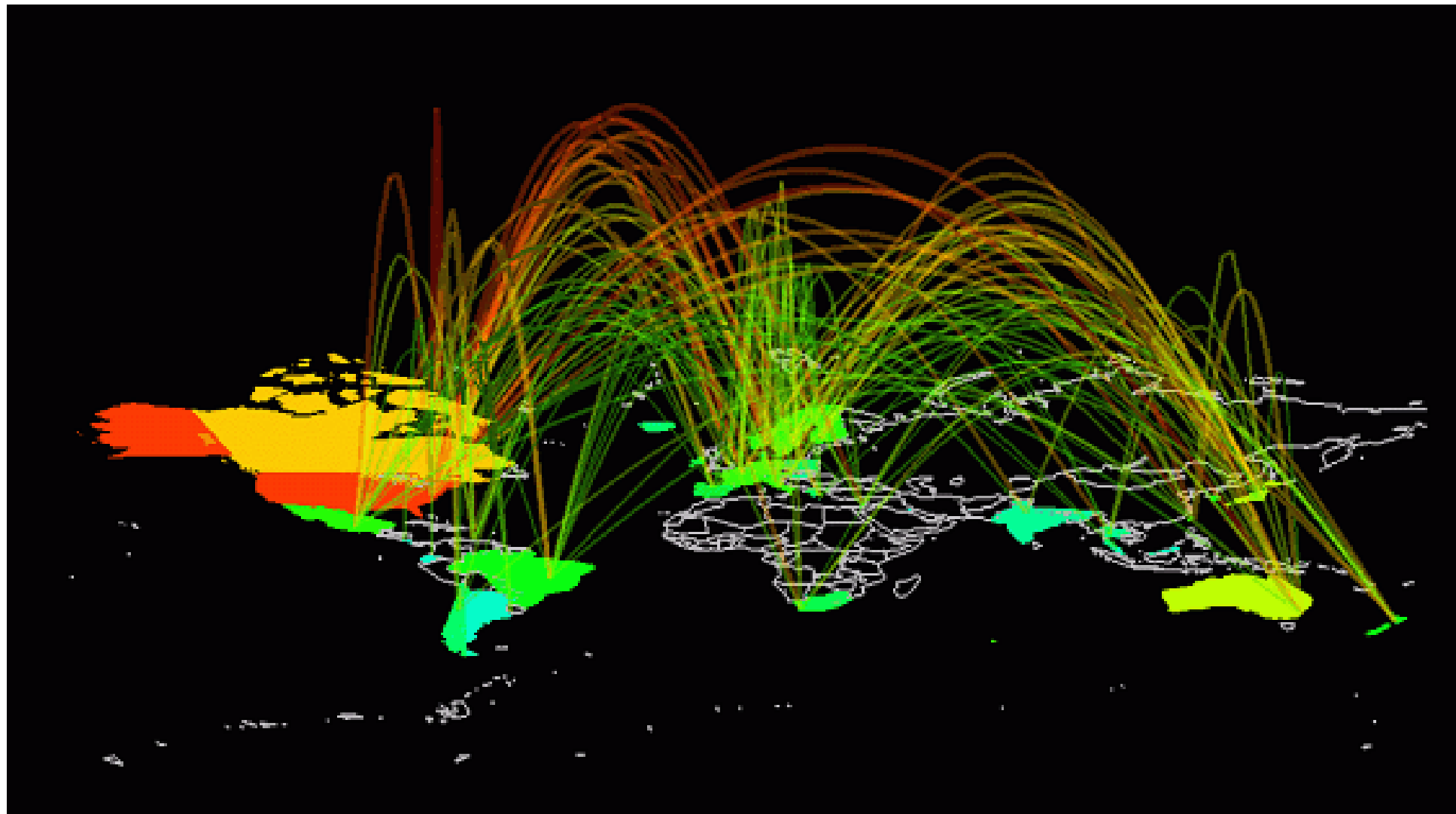
Issues

- Redirection
- Forms
- Cookies
- Security (HTTPS)
- Active Content (flash / javascript / ActiveX)
- International Bandwidth



BMO

(aidworld)



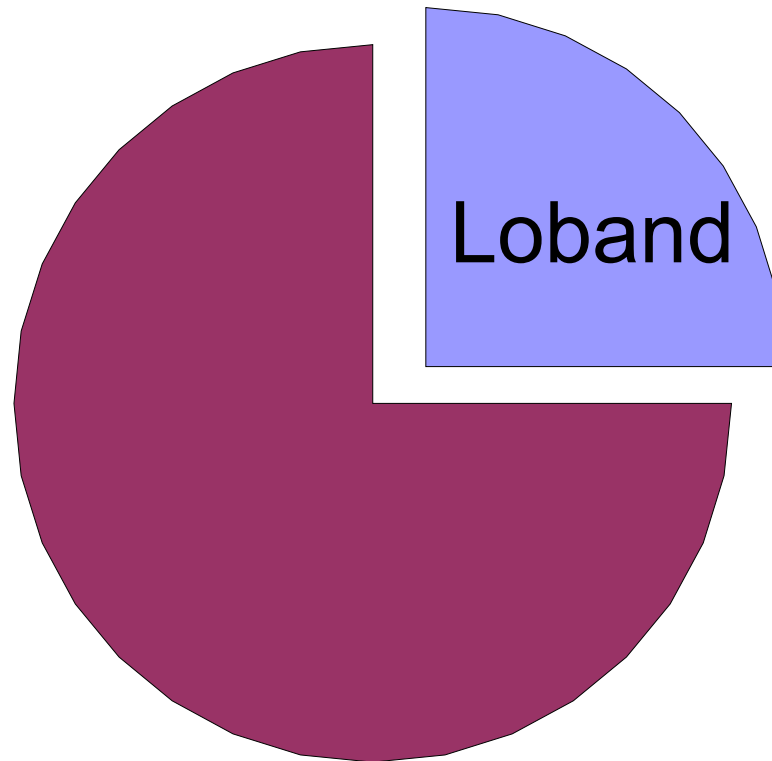
Structure

- Java
- Servlet deployed under Tomcat
- Filter Pipeline
- Custom Parser

Using Loband in an Institution

- Home page
- Proxy
- Preferential Bandwidth

Bandwidth Partitioning



10 – 25%
dedicated to
text-only browsing

Giving users more options

Next Directions

- CSS Optimisation
- Image Optimisation
- Proxy Option
- PDF Translation
- Webmail Support
- Optimise Search Process
- Easy Customisation

CSS Optimisation

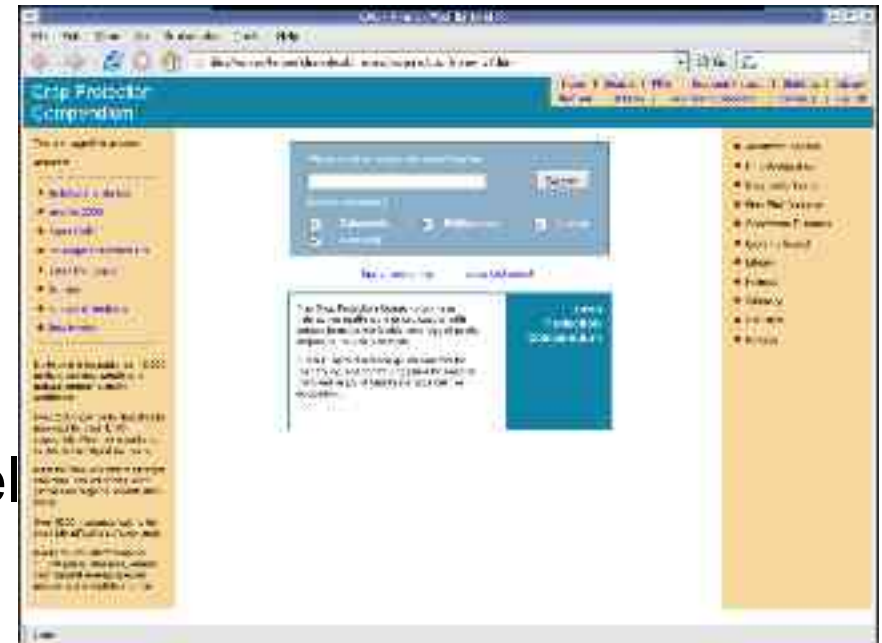


Original

109 kB

CSS Optimisation
maintains look and feel

16kB (85% reduction)



>(loband) - http://news.bbc.co.uk/1/hi/

[Skip to main content](#)

[bbc.co.uk](#) [Home](#) [TV](#) [Radio](#) [Talk](#)

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>(loband) - http://news.bbc.co.uk/1/hi/

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[Binary code on keyboard keys](#)

BMO

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Original
620 kB



800x600
81 kB



Thumbnail
8 kB

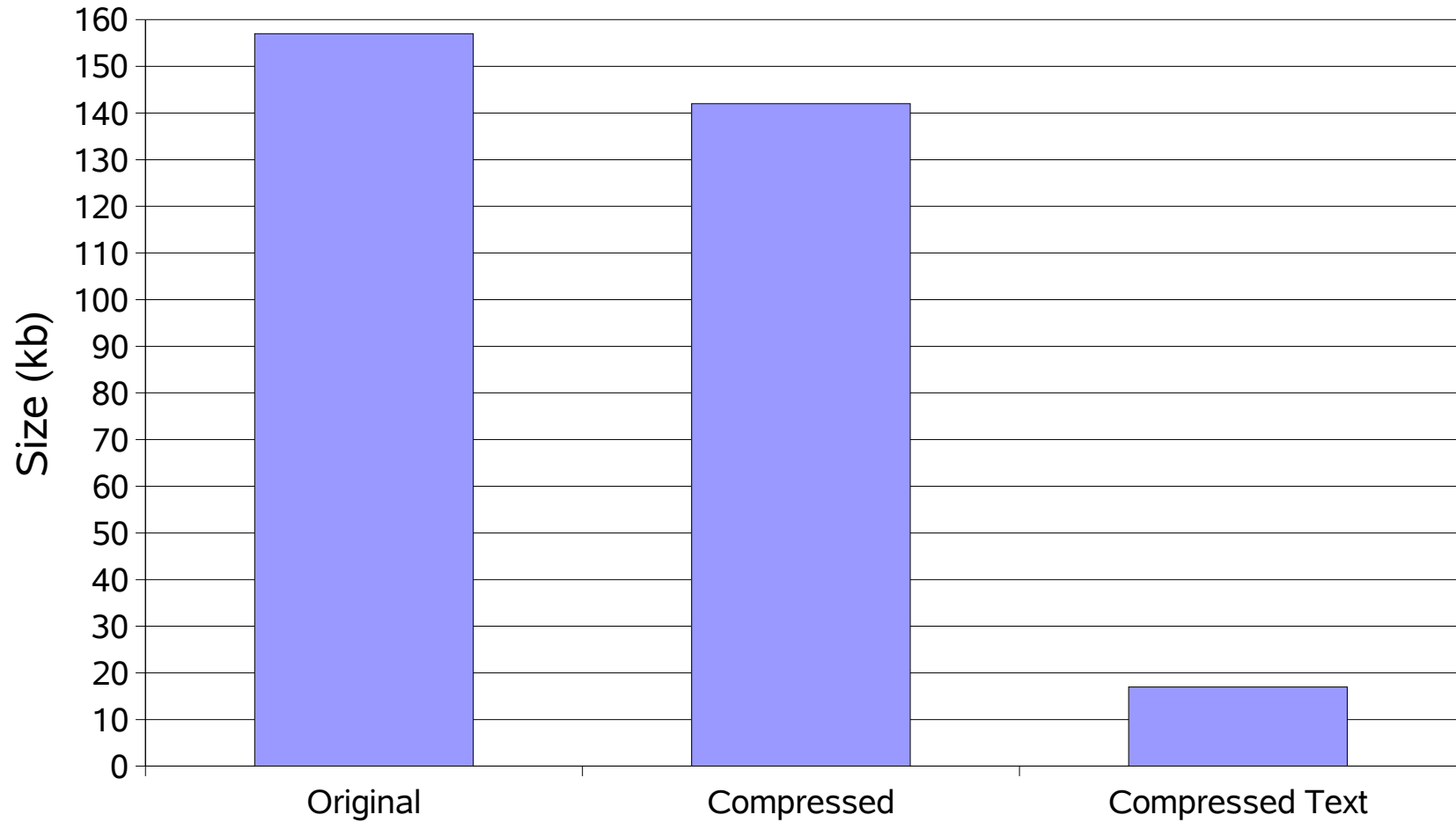


Low quality
12 kB



Low quality
thumbnail
1.5 kB

Typical PDF Sizes



Other Projects

Lobandwidth Style Guidelines



Original

218 kB

Available at:
www.aidworld.org



Reformatted

12kB

(94% reduction)

Site Search
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International Development

International Development

Information For Development

About Information For Development

Knowledge For Development

About Knowledge For Development

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About Compendia

CAB International is developing a range of multimedia Compendia. The Compendium concept involves development of encyclopaedic, multimedia tools that bring together a wide range of different types of science-based information. Each Compendium comprises information sourced from experts, edited and compiled by an independent scientific organization, kept up-to-date routinely and resourced by a diverse International Development Consortium.



Coffee Compendium

Aquaculture Compendium

International Development

International Development

International For Development

About International
For Development

Knowledge For Development

About Knowledge
For Development

Compendia

About Compendia

History

Consortium

Demos

Contributors

Fair Use

Urcot

Local Compendia

International Centres
and OfficesAbout International
Centres and Offices*About Compendia*

Compendia > About Compendia

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**Forestry
Compendium**

**Crop
Protection
Compendium**

**Animal
Health and
Production
Compendium**

**Coffee
Compendium**

**Aquaculture
Compendium**

THE SCIENCE

THE SEARCH

THE SOLUTION

Crop Protection Compendium

Please enter what you are searching for:-

Sections to search

- Datasheets
 Bibliography
 Library
 Glossary

[tips on searching](#) | [advanced search](#)

The Crop Protection Compendium is an interactive multimedia encyclopaedia with comprehensive worldwide coverage of pests, crops and natural enemies.

It is a superb reference guide and tool for identifying and controlling pests for anyone involved in plant health management or education.



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-  [about CABI](#)
-  [developmental consortium](#)
-  [about the project](#)
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-  [Diagnostic Search](#)
-  [Pest Risk Analysis](#)
-  [Seedborne Diseases](#)
-  [Economic Impact](#)
-  [Library](#)
-  [Notepad](#)
-  [Glossary](#)
-  [Statistics](#)
-  [ID Keys](#)

Crop Protection Compendium

You are logged in as user: -

Aicworld

- ◆ [help/getting started](#)
- ◆ [new br 2005](#)
- ◆ [about CABI](#)
- ◆ [development consortium](#)
- ◆ [about the project](#)
- ◆ [fair use](#)
- ◆ [support & feedback](#)
- ◆ [how to order](#)

Up-to-date information on 10,000 pests, diseases, weeds and natural enemy species worldwide.

Over 2,300 complete datasheets, provided by over 1,100 specialists. Peer reviewed and edited to the highest standard.

Data for over 200 different crops and over 150 countries, with global and regional distribution maps.

Over 6000 images allowing for easy identification of crop pests.

Background information on 10,000 pests, diseases, weeds and natural enemy species providing a complete archive.

Please enter what you are searching for:

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[tips on searching](#)

[advanced search](#)

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**Crop
Protection
Compendium**

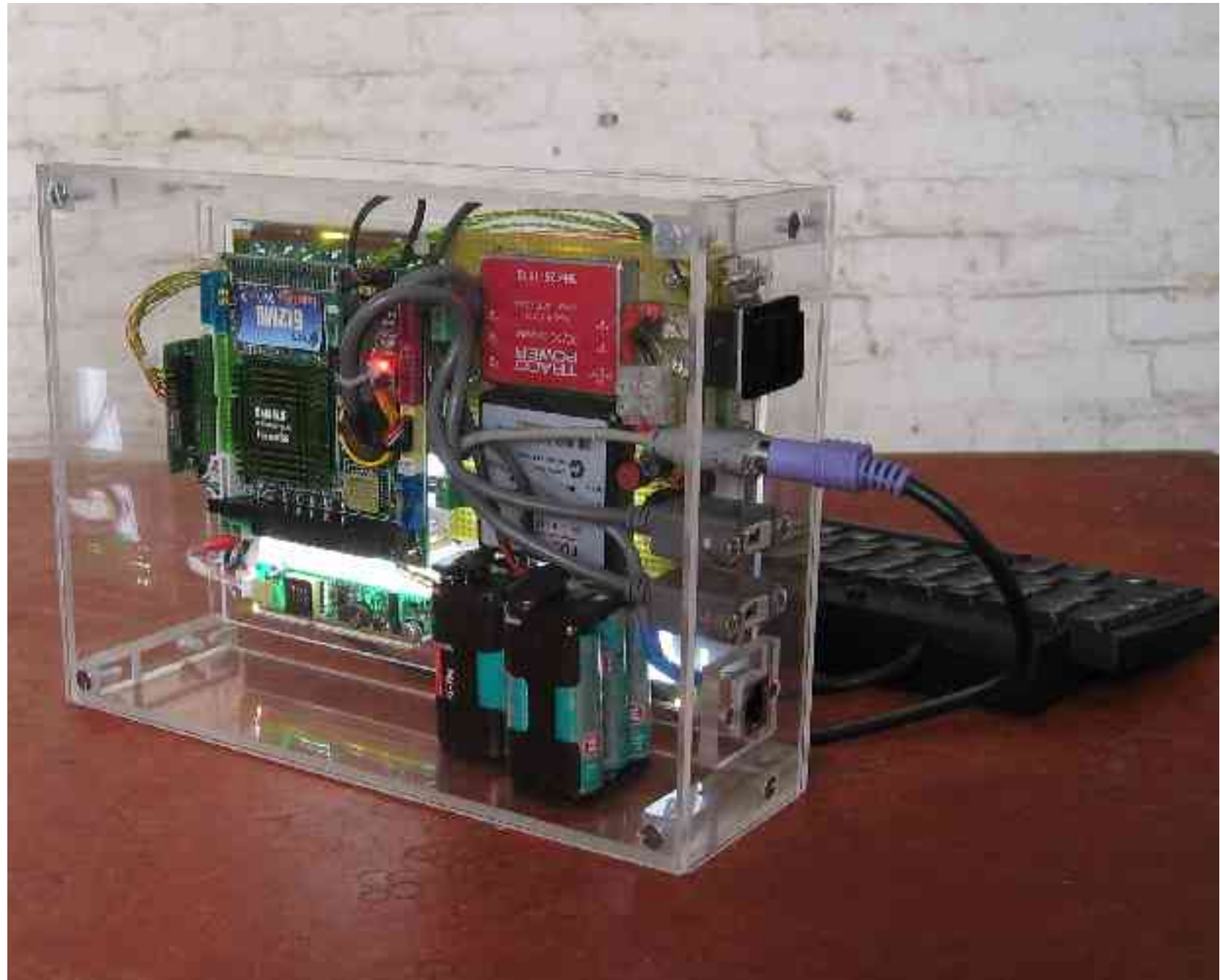
- ◆ [Advanced Search](#)
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- ◆ [Glossary](#)
- ◆ [Statistics](#)
- ◆ [ID Keys](#)

Email Support



- Power
- Connectivity
- Reliability
- Skills
- Affordability





PINE 4.63 MESSAGE TEXT Folder: sent-mail Message 2,427 of 2,427 95%

Date: Mon, 03 Oct 2005 16:09:08 +0100
From: Chris Wilson <chris@aidworld.org>
To: Alan Jackson <alan@aidworld.org>
Cc: Tariq Khokhar <tariq@aidworld.org>
Subject: Pine

Hi Alan,

Pine has a function key mode! It disabled all the usual shortcuts (keys and control-keys) and replaces them with function keys. Run it with "pine -feature-list=use-function-keys" to see it.

It's a bit extreme in some ways - for example, you can't use Y and N for yes and no any more, but we should be able to customise it.

Does that make it meet your requirements for a user interface?

Cheers, Chris.

—
(aidworld) chris wilson | chief engineer (chris@aidworld.org)

F1 Help **F3** MsgIndex **F5** PrevMsg **F7** PrevPage **F9** Delete **F11** Reply
F2 OTHER CMDS **F4** ViewAttch **F6** NextMsg **F8** NextPage **F10** Undelete **F12** Forward

ኢሜል 4:63 መልእክት ደብዳቤ የተላከ ኢሜል የ 2,427.95% መልእክት 2,308 መልእክቶች

ቀን : ለኛ 03 ጥቅምት 1998 10:09:08 + 0100
ካ : ክሪስ ዊልሰን ክሪስ@aidworld.org
ለ : አለን ቻክሰን አለን@aidworld.org
ኮር : ታሪክ ጸይ ታሪክ@aidworld.org
ጉዳይ : ስላምታ

እንዴት ነህ አለን። እኔ ደህና ነኝ

ባለፈው ሳምንት እደውላለሁ ብለኝ ነበር። መደወሉ ወደ ማይሆንበሽ ለይቀርኩ። ከእንግዲህ ቶሎ ቶሎ ወደወል አያስፈልግኝም ይኸው ኢሜል አገልግሎት አገኘን። በየቀኑ ኢሜል እንጸራራጋለን። አንቺም ነፊ። እንዘር ይበርካቸውና እኒህ ሰዎች በአማርኛ መጻፍ እንድንችል አመቻችተውልናል። በይ ነፊ

አባትሽ ቸርነት

F1 እርዳታ F2 ሌሎች መልእክቶች F3 የደሊ ዝርዝር F4 መልእክት አሳይ F5 የቀድሞ መልእክት F6 ቀጣይ መልእክት F7 የቀድሞ ገጽ F8 ቀጣይ ገጽ F9 አጥፋ F10 ኢተጥፋ F11 መልስ F12 ለስተላልፍ

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