



# ACTF Project Status Update

## Jan. 22nd, 2010

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# Agenda

- ACTF restructuring
  - ♦ <http://dev.eclipse.org/mhonarc/lists/actf-dev/msg00271.html>
- Visual Complexity Rankings and Accessibility Metrics (ViCRAM) tool status update
- MobileOK integration status update
- Helios (Eclipse 3.6) release status update
- Alternative Interface part development plan
- Other discussions



# ACTF restructure

- Background

- ♦ Due to recent resource limitations, etc., the main contributor of the validation part (IBM Human Ability and Accessibility Center (HA&AC) team) will no longer actively participate in this project.
- ♦ This makes it difficult to ensure development/release of the validation part.
- ♦ Currently, the validation part has no downstream dependencies or consumers.

- Proposal

- ♦ Remove the Validation components from the Eclipse CVS repository.
  - This includes Java Validation Componentry (Javaco), Web Validation Componentry (Webelo), and Accessibility Probe (AccProbe, RCP application).<sup>\*1</sup>
  - Any plugins or resources that are shared with other ACTF components will remain in the Eclipse CVS repository.
  - See [actf-eclipse.html](http://actf-eclipse.html) for more details.
- ♦ Move previously released materials of validation part into “archive download page” with notices that they are no longer actively developed or supported.
- ♦ ACTF community will make decisions about these components’ future reactivation or enhancement.



# Helios (Eclipse 3.6) release schedule

<http://wiki.eclipse.org/Helios>

## • Schedule

- ♦ **M1** 8/19/2009 (= Galileo SR1 RC1)
- ♦ **M2** 9/30/2009 (= Galileo SR1)
- ♦ **M3** 11/11/2009
- ♦ **M4** 12/16/2009
- ♦ **M5** 2/3/2010 (= Galileo SR2)
- ♦ **M6** 3/17/2010
- ♦ **M7** 5/5/2010 (Feature Freeze)
- ♦ **RC1** 5/19/2010
- ♦ **RC2** 5/26/2010
- ♦ **RC3** 6/2/2010 (API Freeze)
- ♦ **RC4** 6/9/2010
- ♦ **Final** 6/16/2010

## • Work items

- ♦ WCAG 2.0 support
  - initial support is done
- ♦ Performance improvement
  - blind usability visualization
- ♦ Usability improvements
- ♦ Advance integration with WST/PDT, etc.
- ♦ Bug fix
- ♦ New features?

milestone release is available at

<http://download.eclipse.org/technology/actf/0.8/milestones/>



# Alternative Interface part development plan

- Plan to join 2011 annual release.
- Work items
  - ◆ Documentation (incl. Javadoc, Help, etc.)
  - ◆ API improvements/enhancements
  - ◆ Usability improvements
  - ◆ Bug fixes
- Focus
  - ◆ Develop a common platform of synthesized audio description for online videos



# Audio Descriptions in Japan

Movie	448	54	4
	Number of Japanese movies (2008)	With Captions	With audio descriptions

*from NPO Media Access Support Center*

TV 0.4%

Ratio of TV programs with audio descriptions in Japan (except public broadcasting) (2008)

*from NICT: National Institute of Information and Communications Technology*

Internet 0.2% 0.0%

Ratio of OpenCourseWare  
(educational content) with **Captions**.

Ratio of online movies with audio  
descriptions in major online movie site and  
educational content.)

*from sampling investigation by IBM Research - Tokyo*



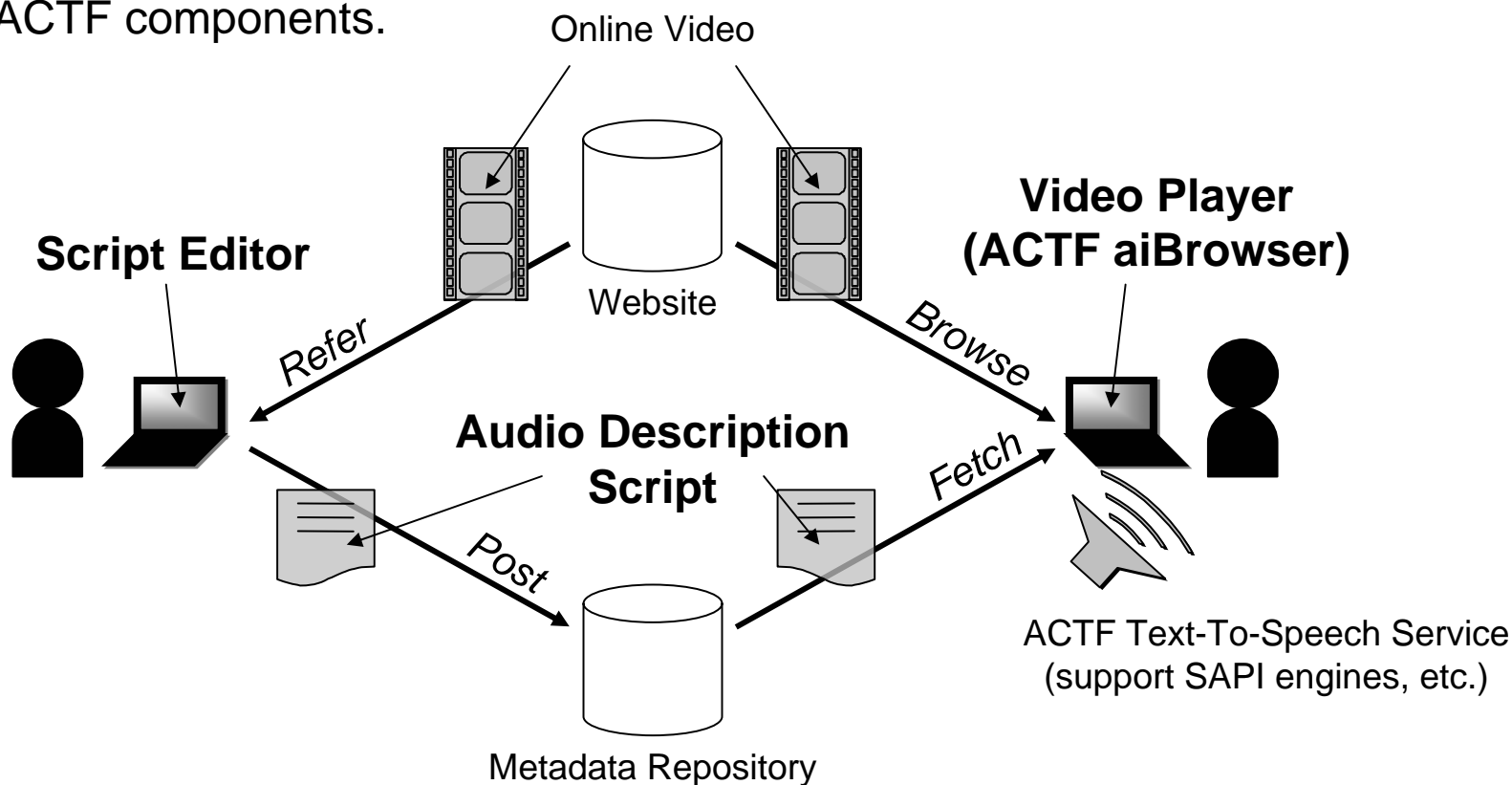
## Issue - Cost

1. Writing an audio description script requires special expertise to describe the scenes between dialogues and scene changes.
2. Recording an audio description calls for a skilled narrator and a good recording environment.



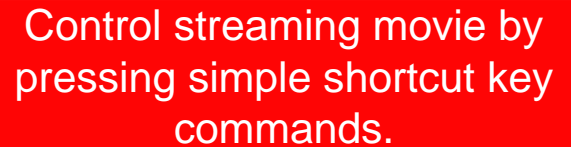
# Approach

- Make ACTF into an open source platform for audio descriptions.
  - ♦ Enhance ACTF alternative interface components to enable authoring and playing (synthesizing) audio descriptions on PCs
  - ♦ Develop/enhance prototype tools (Script Editor and Video Player) on top of ACTF components.





- ## Simplified user interface for voice access based on metadata



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# Current status of aiBrowser

- Support media
  - ♦ Flash (swf v6-v9 (AS2))
  - ♦ Experimental: Windows Media (wmv, etc.), RealMedia, QuickTime
- Media control functions
  - ♦ Play / Stop / Pause                      Ctrl+P / Ctrl+S / Pause
  - ♦ Volume Down / Up                      Ctrl+J / Ctrl+K
  - ♦ Mute / Mute off                      Ctrl+M
  - ♦ Speed Up / Down                      Ctrl+Up / Ctrl+Down
  - ♦ Rewind / Forward                      Ctrl+Left / Ctrl+Right
- Audio description
  - ♦ Provide audio description by using TTS engine (SAPI, ProTalker)
  - ♦ Support simple XML format
    - start time
    - text



# Enhancement plan

- Enable sharing of audio description scripts via networks
  - ♦ provide HTTP-based fetch mechanism
- Enable use of pre-generated audio descriptions (wav, mp3, etc.)
- Enable control of TTS parameters (voice gender, speed, pitch, stress, etc.) for providing high-quality audio descriptions
  - ♦ extend TTS control interface of ACTF
  - ♦ provide adapters for existing TTS engines/APIs (SSML, SAPI, etc.)
- Support extended audio description
- Support existing/coming formats for captions and audio descriptions
  - ♦ design common interface
  - ♦ provide ExtensionPoint to add adapters for each format



- preview

edit panel

## Audio description list





Thank you!

