

Web Audio Evaluation Tool: A browser-based listening test framework

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code.soundsoftware.ac.uk/projects/webaudioevaluationtool

1 Introduction

- Framework for audio evaluation
- Based in web browser using Web Audio API
- No proprietary software required
- Operate tests remotely or locally
- Quick and easy to run and analyse listening tests

2 Interfaces

- A range of test interfaces are available
- Current work is extending number of interfaces
- **Do you need a specific test interface? Tell us**

Listening test

Stop Submit

Test 1 of 2

Reference

Example Test Question

Min Middle 75 Max

00:00

Comment on fragment 0

Comment on fragment 1

Comment on fragment 2

Comment on fragment 3

Comment on fragment 4

Comment on fragment 5

What is your general experience with numbers?

Please enter your overall preference

Very Bad OK Great

Please describe the overall character

Funky Mellow Laid back Heavy

APE style test

Listening test

Stop Submit

0 1 2 3 4

Play Play Play Play Play

What is your mixing experience

Please enter your ranking preference on this song

Very Bad OK Great

Describe this song

Bright Punchy Dark Muddy Thin

MUSHRA style test

3 Features

- Automatic randomisation of track and page orders
- Collection of session metrics for in-depth participant analysis
- Built-in questionnaire tool
- Interfaces are easily customisable

4 Test creation

- Test creation tool to easily build your test
- Configure and output files in structured XML format

Test Page

Drag and drop your audio files into the box below to add them to a test page

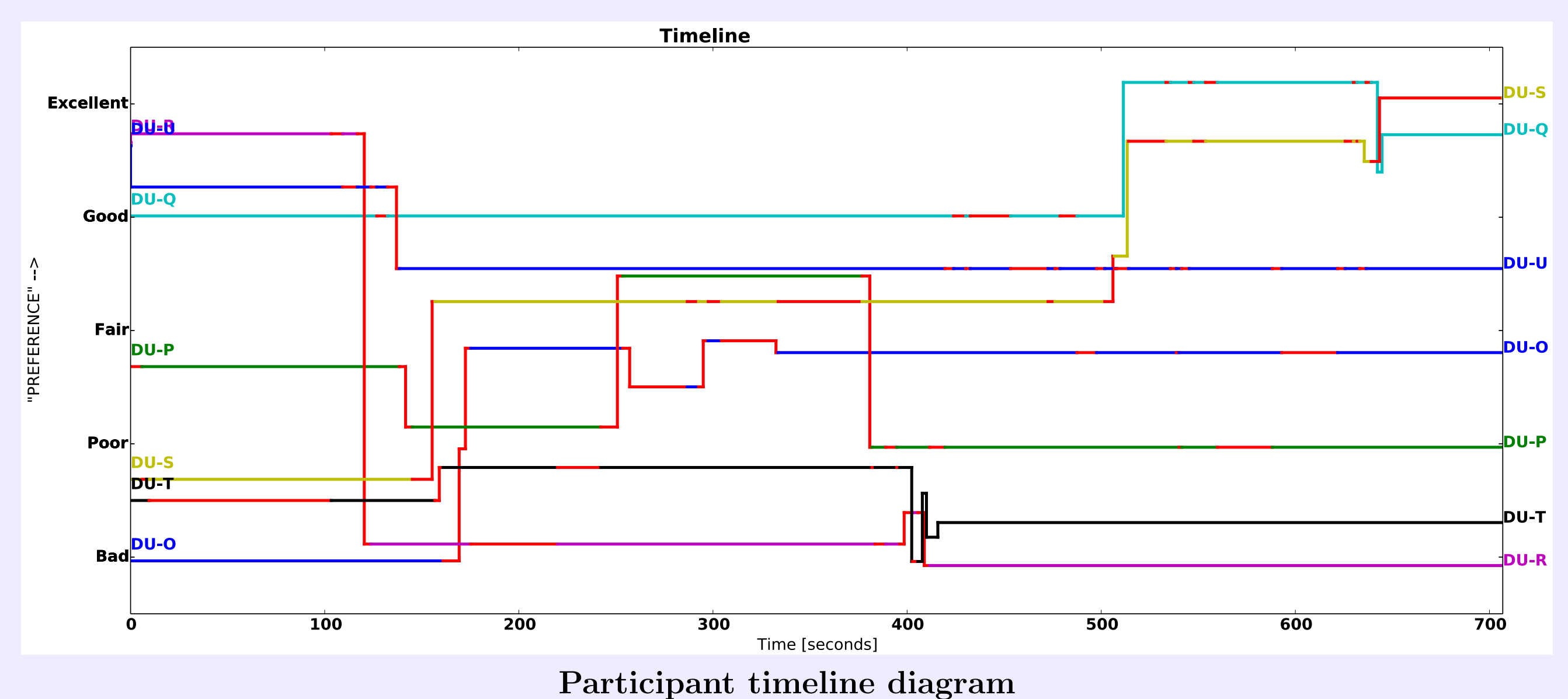
Inc.	File Name	ID	Sample
<input checked="" type="checkbox"/>	0.wav	0	Play
<input checked="" type="checkbox"/>	1.wav	1	Play
<input checked="" type="checkbox"/>	2.wav	2	Play
<input checked="" type="checkbox"/>	3.wav	3	Play
<input checked="" type="checkbox"/>	4.wav	4	Play
<input checked="" type="checkbox"/>	5.wav	5	Play

Submit

Drag and drop audio samples

5 Analysis

- Includes analysis functions to quickly present results in browser
- Automatic report generation
- Box plots, confidence plots and participant time line



[1] Nicholas Jillings, Brecht De Man, David Moffat and Joshua D. Reiss, "Web Audio Evaluation Tool: A browser-based listening test environment," 12th Sound and Music Computing Conference, July 2015.

