

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
- Quick and easy to run and analyse listening tests

2 Interfaces

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

Listening test

Stop Submit
Test 1 of 2

Reference

Example Test Question

Min 00:00 Middle 75 Max

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

Punky 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

- Operate tests remotely or locally
- Automatic randomization of track and page orders
- Collection of session metrics for in-depth participant analysis
- All text completely customizable
- Perform surveys and questionnaires

4 Test creation

- Test creation tool to easily build your test
 - No need for Programming
- Or build test in XML

Test Page

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

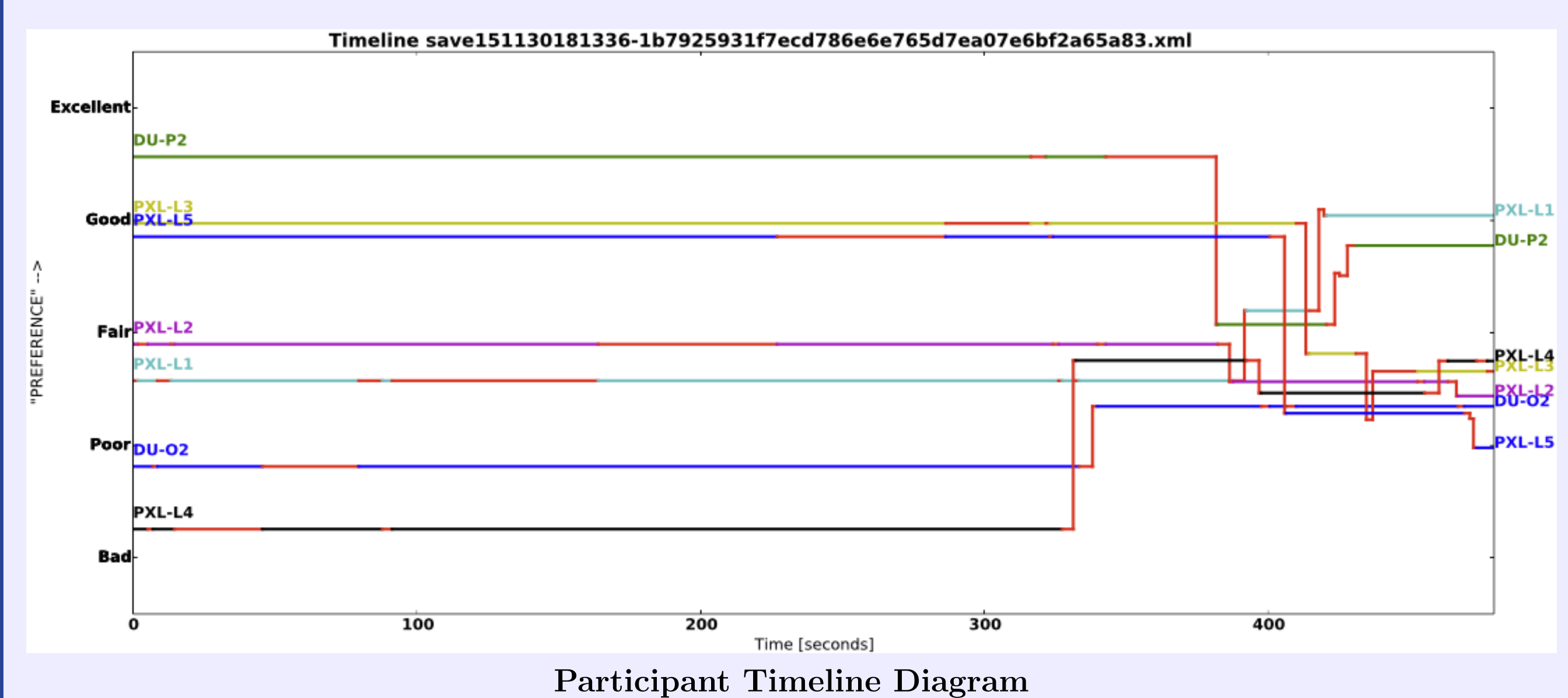
Inc.	File Name	ID	Sample
<input checked="" type="checkbox"/>	0.wav	0	Play
<input checked="" type="checkbox"/>	1.wav	1	Play
<input checked="" type="checkbox"/>	2.wav	2	Play
<input checked="" type="checkbox"/>	3.wav	3	Play
<input checked="" type="checkbox"/>	4.wav	4	Play
<input checked="" type="checkbox"/>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

Submit

Drag-and-drop audio samples

5 Analysis

- Includes analysis scripts to quickly present results
- 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.

