Covfee: an extensible web framework for continuous-time annotation of human behavior

Supplementary Material

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Appendix A. Covfee specification examples

Here we present an example of a Covfee specification file for reference purposes. Using Covfee as a requester involves writing such a specification file:

```
{
    "id": "1d_annot",
    "name": "Continuous annot sample",
    "email": "example@example.com",
    "hits": [
        {
            "id": "1d_annot",
            "name": "1D annotation sample",
            "repeat": 2,
            "tasks": [
                {
                    "type": "ContinuousKeypointTask",
                    "name": "Head",
                    "media": {
                        "type": "video",
                        "url": "$$www$$/myvideo.mp4",
                        "resolution": [1920, 1080],
                        "fps": 25
                    }
                }
            ]
        }
    ]
}
```

Note: the exact schema of the specification file may vary with new Covfee releases.

Figure 1 shows the output of validation the Covfee specification above, with a mistake in the name of the task (*ContinuousKeypoint* insted of *ContinuousKeypointTask*) to showcase the kind of error messages that Covfee returns to the user.

```
✓ 1 covfee project files found.
✓ Read covfee file annotation.covfee.json.
✗ Error validating project "Continuous annot sample" in annotation.covfee.json.

Error in project["hits"][0]["tasks"][0] for object:
{
    "type": "ContinuousKeypoint",
    "name": "Head",
    "media": {
        "type": "video",
        "url": "$$www$$/sign.mp4",
        "resolution": [
            1920,
            1080
        ],
        "fps": 25
    }
}
Error: Invalid value 'ContinuousKeypoint' for property 'type'. Please make sure you are using a supported value.
```

Figure 1: A validation error generated by Covfee indicates the location of the error within the specification and the reason for it being invalid.

Appendix B. Covfee web application

Figure 2: The admin panel allows for tracking of HITs, downloading results, and accessing URLs for dissemination.

Figure 3: Consent forms can be specified directly in Covfee. They can act as a requirements before annotators get access to the data.
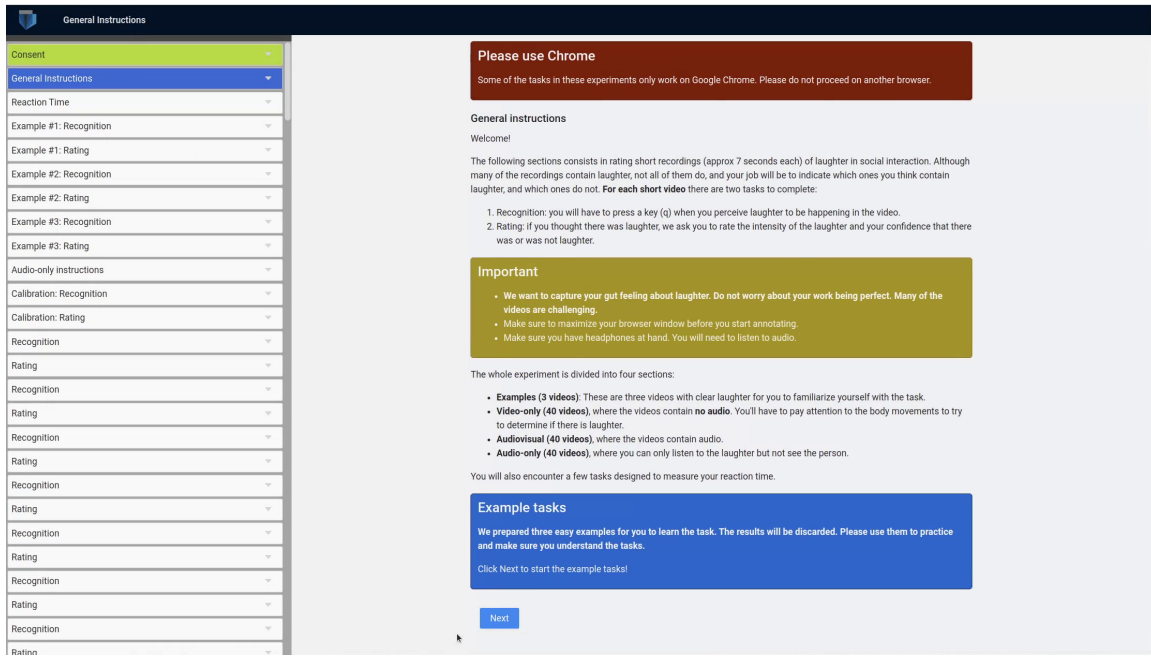
Figure 4: Rich instructions in Markdown / HTML format can be specified directly into a Covfee HIT. Providing good instructions is key for novel annotation techniques that annotators are unfamiliar with.