musicassessr is an R package which builds on top of psychTestR (Harrison, 2018) to:

- Deploy music (production) tests and musical stimuli and record/score musical behaviour in a web browser.
- It serves several music production tests in development.

### Supplementary Packages

- **pinyin**: Transcribe monophonic audio in R via the pYIN algorithm.
  ```r```
  devtools::install_github('sebsilas/pinyin')
  ```
  - **itembankr**: Produce musicassessr-compatible musical item banks with useful melodic features
  ```r```
  devtools::install_github('sebsilas/itembankr')
  ```

### Music (Production) Tests

- **SAA**: Singing Ability Assessment
  ```r```
  devtools::install_github('sebsilas/SAA')
  ```
- **PBET**: Playing By Ear Test
  ```r```
  devtools::install_github('sebsilas/PBET')
  ```
- **PDT**: Pitch Discrimination Task
  ```r```
  devtools::install_github('sebsilas/PDT')
  ```

### COMING SOON:

- Rhythm Tapping Test
- Sight Reading Test
- Sight Singing Test
- Adaptive tests

### Top Level

**Instantiate a musicassessr test**
```r```
see: `?musicassessr::make_musicassessr_test`
```

**Record (and transcribe) audio**
```r```
[See: ?musicassessr::record_audio_page]
```

**Record (and transcribe) MIDI**
```r```
[See: ?musicassessr::record_mid]

### Trial blocks

**Arrhythmic melody trials**
```r```
[See: ?musicassessr::arrhythmic_melody_trials]
```

**Rhythmic melody trials**
```r```
[See: ?musicassessr::rhythmic_melody_trials]
```

**Long tone trials**
```r```
[See: ?musicassessr::long_tone_trials]
```

### Record audio block
```r```
[See: ?musicassessr::record_audio_block]
```

### Record MIDI block
```r```
[See: ?musicassessr::record_mid]
```

### Present Stimuli

**Collect user instrument/vocal range**
```r```
[See: ?musicassessr::get_instrument_range_pages]
```

**Collect user signal-to-noise ratio (SNR)**
```r```
[See: ?musicassessr::get_SNR_pages]
```

### Display Modalities

- **visual**, **auditory**, **both**

### Core References