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Appium: The Next 5 Years

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CLOUDGREY

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Cloud Grey is the premier Appium consulting firm—I help clients with training, strategy, and everything else.

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Weekly newsletter of awesome Appium tips. Only available in English—for now!

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Recognition

The First 5 Years

Crucial Milestones - First 5 Years

100% WebDriver-compatible open source

JavaScript, our beloved chimera

Initial expansion from iOS to Android

Intense worldwide evangelism

Chinese community writes entire docs in Chinese!

Appium 1.5 rewrite to modernize development and make way for a proliferation of drivers

Ownership transition to the non-profit JS Foundation

Support across almost every major mobile testing cloud service

Appium's Vision

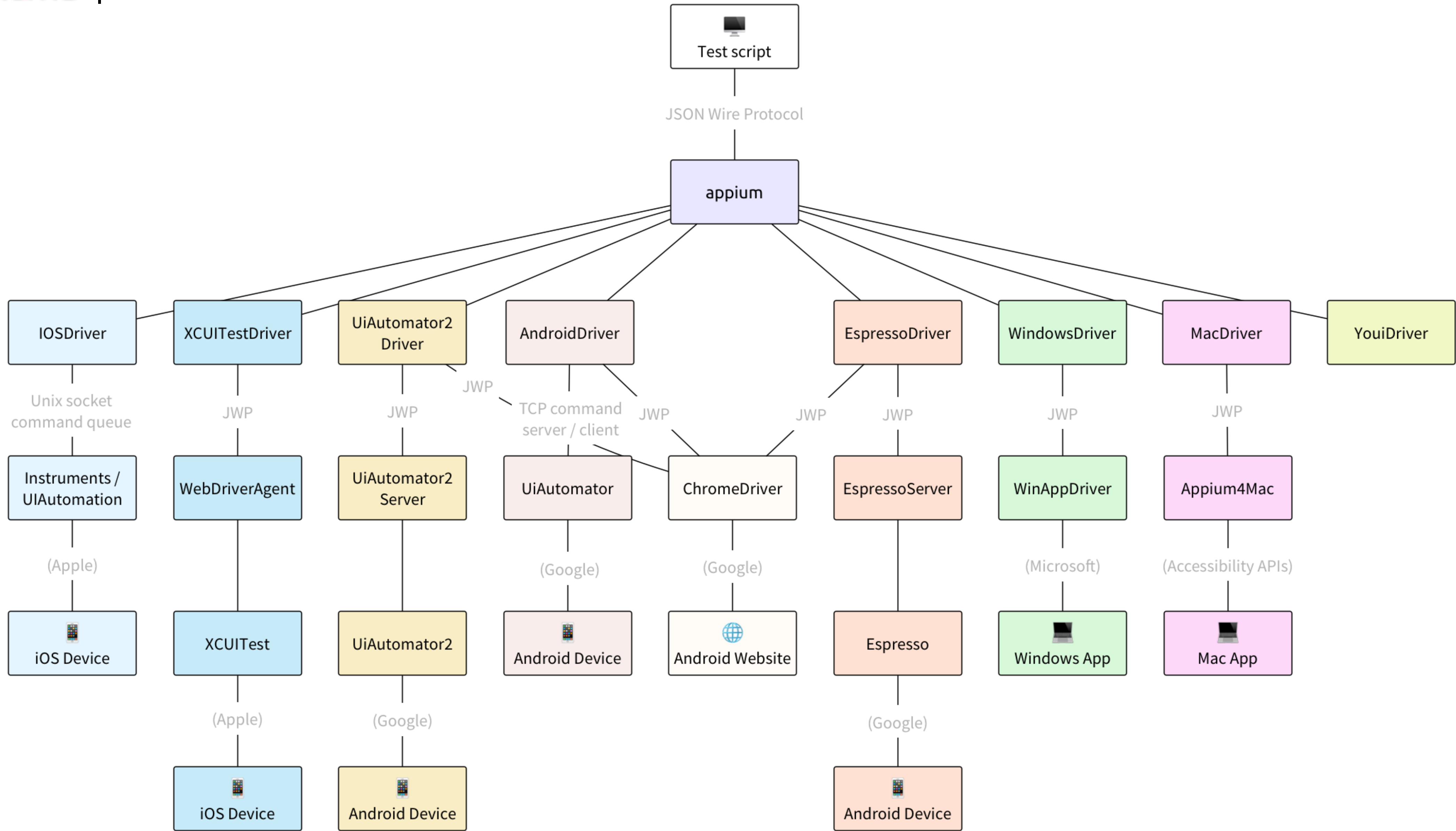# The Appium of the Future / ☆Driver / ∞Driver

An official extension to the W3C WebDriver protocol

A set of Node.js base classes and libraries for easily writing drivers

Multiple drivers, each one a WebDriver interface on top of the best automation tech of the day for a given platform, plus a helpful collection of other utilities. A stable API on top of a changing set of underlying technologies.

A community of practitioners who maintain an ever-expanding knowledge-base for different platforms

Hopeful Milestones - Next 5 Years

Mobile vendor includes Appium as first-class automation framework

More driver-level maintainers from a variety of invested companies

Best-in-class stability, performance, and compatibility through the inclusion of new drivers

Mobile / beyond-the-browser additions to the W3C spec, or similarly official extension

Appium 2.0 release with fully flexible driver management

Standardization instead of proliferation in mobile automation technology

Better collaboration between English & Chinese Appium communities

How do we get there?

Initial motivation and implementation sketches for next-gen use cases (VR, IoT, etc…), arising from concrete need

Community growth getting us on the radar of the bigger vendors

Making noise to the bigger vendors about bugs or feature requests essential to our needs

More contributors and maintainers!

Established process between English-speaking and Chinese-speaking contributors to make sure information is shared
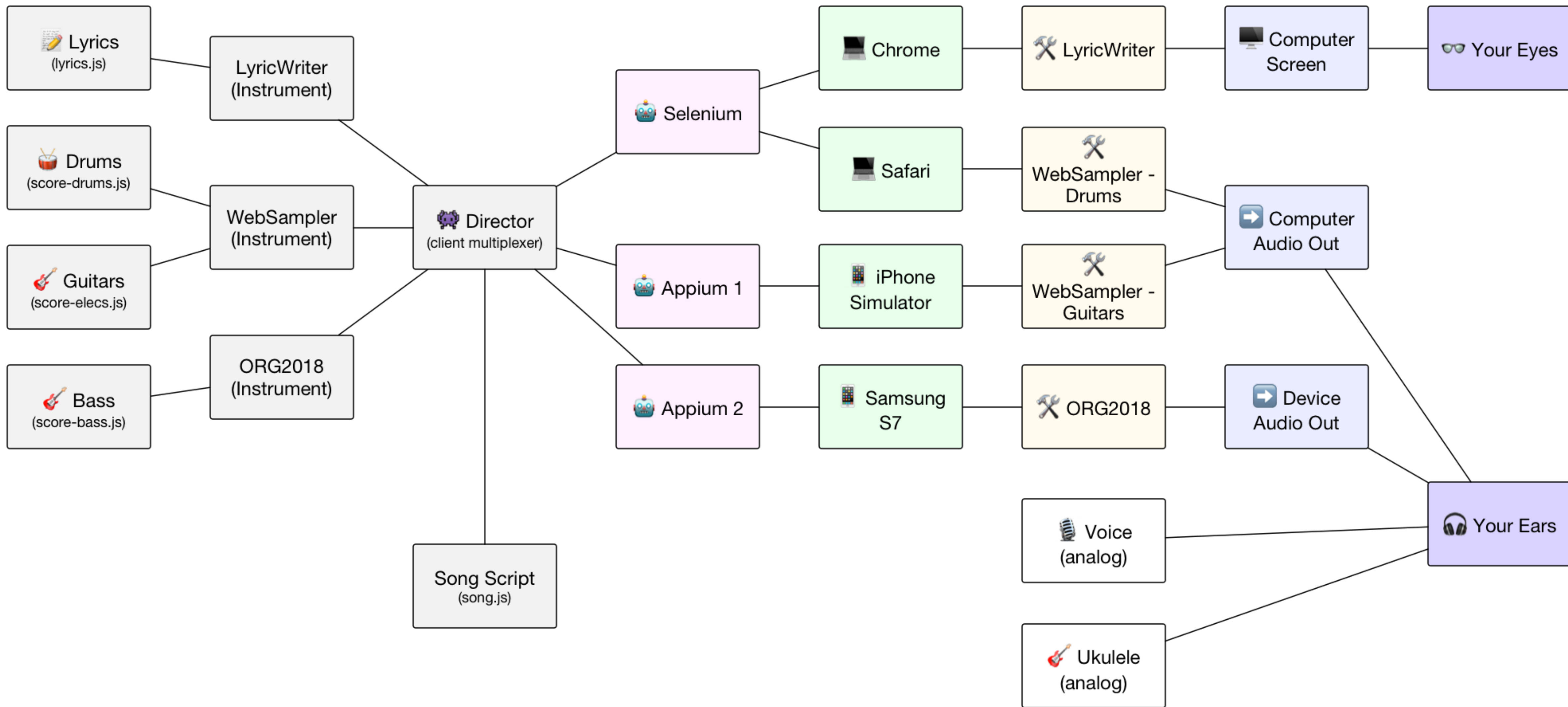
And now for some fun…

⚠️ Live Robo-rock ⚠️

score-bass.js

```javascript
const VERSE = [
  'b4. b2 r8 ', 'f#4. C#2 r8 ',
  'e4. b2 r8 ', 'b4. b2 r8 ',
  'g#4. D#2 r8 ', 'f#4. b2 r8 ',
  'f#4. C#2 r8 ', 'f#4. C#2 r8 ',
];

const BRIDGE_PART = [
  'E2 E4 F#4', 'C#2 C#2',
  'a#2 a#4 C#4', 'b2 b2'
];

const BRIDGE = BRIDGE_PART.concat(BRIDGE_PART, [
  'E2 E4 F#4', 'C#2 C#2',
  'a#2 a#4 b4', 'C#2 C#2',
  'g#4 g#2.', 'b2 b4 e4',
  'f#2 f#2', 'r4 f#4 f#4 f#4',
]);

const CHORUS_PART = [
  'b4 F#4 b2', 'b4 F#8 D#4. b4',
  'a4 F#4 B2', 'a4 F#8 B4.  A4',
  'e4 b4  E2', 'e4 b8  E4.  b4',
  'e4 b4  E2', 'e4 b8  G4.  E4',
];

const CHORUS = CHORUS_PART.concat(CHORUS_PART);

const OUTRO = [
  'b4 b4. b8 b4', 'f#4 C#4. f#8 C#4',
  'e4 b2 r8 b8', 'b4 b2 b4',
  'g#4 D#2 g#4', 'f#4 b4. f#8 b4',
  'e4 b2 e2 e4 b4 e4',
  'b0', 'r0'
];

const SONG = [].concat(
  LEADIN,
  INTRO,
  VERSE,
  VERSE,
  BRIDGE,
  CHORUS,
  TAG,
  BREAK,
  VERSE,
  BRIDGE,
  CHORUS,
  TAG_2,
  OUTRO,
).join(" ");

module.exports = SONG;
```

score-bass.js

```javascript
const VERSE = [
  'b4. b2 r8 ', 'f#4. C#2 r8 ',
  'e4. b2 r8 ', 'b4. b2 r8 ',
  'g#4. D#2 r8 ', 'f#4. b2 r8 ',
  'f#4. C#2 r8 ', 'f#4. C#2 r8 ',
];

const BRIDGE_PART = [
  'E2 E4 F#4', 'C#2 C#2',
  'a#2 a#4 C#4', 'b2 b2'
];

const BRIDGE = BRIDGE_PART.concat(BRIDGE_PART, [
  'E2 E4 F#4', 'C#2 C#2',
  'a#2 a#4 b4', 'C#2 C#2',
  'g#4 g#2.', 'b2 b4 e4',
  'f#2 f#2', 'r4 f#4 f#4 f#4',
]);

const CHORUS_PART = [
  'b4 F#4 b2', 'b4 F#8 D#4. b4',
  'a4 F#4 B2', 'a4 F#8 B4.  A4',
  'e4 b4  E2', 'e4 b8  E4.  b4',
  'e4 b4  E2', 'e4 b8  G4.  E4',
];

const CHORUS = CHORUS_PART.concat(CHORUS_PART);
```

```javascript
const OUTRO = [
  'b4 b4. b8 b4', 'f#4 C#4. f#8 C#4',
  'e4 b2 r8 b8', 'b4 b2 b4',
  'g#4 D#2 g#4', 'f#4 b4. f#8 b4',
  'e4 b2 e2 e4 b4 e4',
  'b0', 'r0'
];

const SONG = [].concat(
  LEADIN,
  INTRO,
  VERSE,
  VERSE,
  BRIDGE,
  CHORUS,
  TAG,
  BREAK,
  VERSE,
  BRIDGE,
  CHORUS,
  TAG_2,
  OUTRO,
).join(" ");

module.exports = SONG;
```

```javascript
async function run () {
  let eg = new Sampler({
    port: 4797, name: 'Electrics',
    endpoint: 'ghost-guitar', caps: CAPS_ELECS
  });
  let drums = new Sampler({
    port: 4723, name: 'Drums', endpoint: 'drums',
    caps: CAPS_DRUMS, tapByPos: true
  });
  let bass = new Bass({
    port: 4750, name: 'Bass',
    udid: '****************'
  });
  let d = new Director(TEMPO, true);
  drums.analysis = d.addPart(drums, SCORE_DRUMS);
  eg.analysis = d.addPart(eg, SCORE_ELECS);
  bass.analysis = d.addPart(bass, SCORE_BASS);
  try {
    await d.assemble();
    await d.play();
  } finally {
    await d.dismiss();
  }
}
```

jlipps.com/ghost

Thank You!

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