Background

Sites like [www.musicbrainz.org](http://www.musicbrainz.org) provide a wealth of information about music artists and recordings, but the sparseness of music-related schema.org schema limits the ability for these sites to fully describe their data. The following proposal for new music-related properties and types was developed through collaboration with the MusicBrainz project and partially inspired by the MusicBrainz and Music Ontology schemas.

**MusicAlbum**

The following table describes properties to be added to the existing MusicAlbum type.

<table>
<thead>
<tr>
<th>Property</th>
<th>Expected Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>albumProductionType</td>
<td>MusicAlbumProductionType</td>
<td>Classification of the album by its type of content: soundtrack, live album, studio album, etc.</td>
</tr>
<tr>
<td>albumReleaseType</td>
<td>MusicAlbumReleaseType</td>
<td>The kind of release which this album is: single, EP or album.</td>
</tr>
</tbody>
</table>
MusicAlbum Example
An example of possible JSON-LD for *Let It Be* by the Beatles.

```json
{
    "@context": "http://schema.org",
    "@type": "MusicAlbum",
    "@id": "http://musicbrainz.org/release-group/bff544a7-56e0-3ed6-9e0f-3b676cca9111",
    "name": "Let It Be",
    "sameAs": ["http://en.wikipedia.org/wiki/Let_It_Be",
                "http://www.wikidata.org/wiki/Q199585" ],
    "image": "http://coverartarchive.org/release-group/bff544a7-56e0-3ed6-9e0f-3b676cca9111/front.jpg",
    "albumProductionType": "http://schema.org/StudioAlbum",
    "albumReleaseType": "http://schema.org/AlbumRelease",
    "genre": "rock",
    "byArtist": {
        "@type": "MusicGroup",
        "name": "The Beatles",
        "@id": "http://musicbrainz.org/artist/b10bbbfc-cf9e-42e0-be17-e2c3e1d2600d",
    },
    "albumRelease": {
        "@type": "MusicRelease",
        "name": "Let It Be",
        "@id": "http://musicbrainz.org/release/8d5347a5-9ecb-44be-a213-860aaaf5d0b8"
    }
}
```

MusicAlbumProductionType

MusicAlbumProductionType is an enumeration describing the types of music albums. The acceptable values are:

- CompilationAlbum
- DemoAlbum
- DJMixAlbum
- LiveAlbum
- MixtapeAlbum
- RemixAlbum
- SoundtrackAlbum
- SpokenWordAlbum
MusicAlbumReleaseType
MusicAlbumReleaseType is an enumeration describing the types of music releases. The acceptable values are:
- AlbumRelease
- BroadcastRelease
- EPRelease
- SingleRelease

MusicComposition
Thing > CreativeWork > MusicComposition is a new type describing the structure of an original piece of music.

<table>
<thead>
<tr>
<th>Property</th>
<th>Expected Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>musicArrangement</td>
<td>MusicComposition</td>
<td>An arrangement derived from the composition.</td>
</tr>
<tr>
<td>arranger</td>
<td>Person or Organization</td>
<td>The person who arranged the work. The original composer should be listed under &quot;creator&quot;.</td>
</tr>
<tr>
<td>composer</td>
<td>Person or Organization</td>
<td>The person or organization who wrote the composition.</td>
</tr>
<tr>
<td>firstPerformance</td>
<td>Event</td>
<td>The date and place the work was first performed.</td>
</tr>
<tr>
<td>includedComposition</td>
<td>MusicComposition</td>
<td>Smaller compositions included in this work (e.g. a movement in a symphony).</td>
</tr>
<tr>
<td>lyricist</td>
<td>Person</td>
<td>The person who wrote the words.</td>
</tr>
<tr>
<td>musicCompositionForm</td>
<td>TEXT</td>
<td>The type of composition (e.g. overture, sonata, symphony, etc.)</td>
</tr>
<tr>
<td>musicalKey</td>
<td>TEXT</td>
<td>The key, mode, or scale this composition uses.</td>
</tr>
</tbody>
</table>
MusicComposition Example
The following JSON-LD models the composition *A Day in the Life* by Lennon and McCartney, regardless of who performs or records the song.

```json
{
    "@context": "http://schema.org",
    "type": "MusicComposition",
    "@id": "http://musicbrainz.org/work/fd1aa4f2-ba26-3a05-b72d-4392c35a073c",
    "name": "A Day in the Life",
    "composer": [
        {
            "@type": "Person",
            "name": "John Lennon",
            "@id": "http://musicbrainz.org/artist/4d5447d7-c61c-4120-ba1b-d7f471d385b9"
        },
        {
            "@type": "Person",
            "name": "Paul McCartney",
            "@id": "http://musicbrainz.org/artist/ba550d0e-adac-4864-b88b-407cab5e76af"
        }
    ],
    "iswcCode": "T-010.140.236-1",
    "inLanguage": "EN",
    "publisher": {
        "@type": "Organization",
        "name": "Northern Songs, Ltd.",
        "@id": "http://musicbrainz.org/label/26df054d-78cf-4d83-9bb1-a41816125528"
    },
    "datePublished": "1967"
}
```

MusicGroup
The following table describes properties to be added to the existing MusicGroup type. It is expected that the new Roles schema will allow for expressing group membership dates. For example, we can list Pete Best as a member of the Beatles, but the new Roles schema should allow us to assign the property member for the time range 1960-1962.
<table>
<thead>
<tr>
<th>Property</th>
<th>Expected Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>genre</td>
<td>TEXT</td>
<td>The style of music performed by the group.</td>
</tr>
</tbody>
</table>

**MusicGroup Example**

Sample JSON-LD for the Beatles as described by MusicBrainz:

```json
{
  "@context": "http://schema.org",
  "@type": "MusicGroup",
  "@id": "http://musicbrainz.org/artist/b10bbbfc-cf9e-42e0-be17-e2c3e1d2600d",
  "name": "Beatles",
  "sameAs": "http://www.thebeatles.com",
  "foundingLocation": {
    "@type": "City",
    "name": "Liverpool",
  },
  "foundingDate": "1957",
  "dissolutionDate": "1970",
  "genre": "British invasion",
  "genre": "Rock",
  "album": {
    "@type": "MusicAlbum",
    "name": "The Beatles",
    "alternateName": "The White Album",
    "@id": "http://musicbrainz.org/release-group/055be730-dcad-31bf-b550-45ba9c202aa3",
    "datePublished": "1968",
  }
}
```

**Deprecated Properties**

As part of cleaning up the Music schema, we will deprecate the following redundant properties:

- musicGroupMember (superseded by the existing "member" property)

**MusicRecording**

The following table describes properties to be added to the existing MusicRecording type.

<table>
<thead>
<tr>
<th>Property</th>
<th>Expected Type</th>
<th>Description</th>
</tr>
</thead>
</table>
The following is an example of some of the tracks on the Beatles *White Album*.

```json
{
  "@context": "http://schema.org",
  "@type": "MusicRecording",
  "@id": "http://musicbrainz.org/recording/3566e453-8f10-4a45-ac85-2c72eb183ca1",
  "name": "Back in the U.S.S.R.",
  "producer": {
    "@type": "Person",
    "name": "George Martin"
  },
  "duration": "PT2M43S",
  "recordingOf": {
    "@type": "MusicComposition",
    "name": "Back in the U.S.S.R",
    "iswcCode": "T-010.140.236-1"
  },
  "trackNumber": "A1"
}
```

**MusicRelease**

Thing > CreativeWork > MusicPlaylist > MusicRelease is a new type describing a specific release of a music album.

"A MusicRelease is a specific release of a music album."

<table>
<thead>
<tr>
<th>Property</th>
<th>Expected Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>catalogNumber</td>
<td>TEXT</td>
<td>The catalog number for the release.</td>
</tr>
<tr>
<td>creditedTo</td>
<td>TEXT</td>
<td>The group the release is credited to if different than</td>
</tr>
</tbody>
</table>

---

### Table: MusicRelease Property Details

- **isrcCode**: TEXT - The International Standard Recording Code for the recording.
- **recordingOf**: MusicComposition - The composition this track is a recording of.
- **trackNumber**: TEXT - The track number for the song on an individual release.
the byArtist. For example, *Red and Blue* is credited to "Stefani Germanotta Band", but by Lady Gaga.

<table>
<thead>
<tr>
<th>Property</th>
<th>Expected Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>duration</td>
<td>Duration</td>
<td>The duration of the album in ISO 8601 date format.</td>
</tr>
<tr>
<td>musicReleaseFormat</td>
<td>MusicReleaseFormatType</td>
<td>Format of this release (the type of recording media used, i.e. compact disc, digital media, LP, etc.).</td>
</tr>
<tr>
<td>recordLabel</td>
<td>Organization</td>
<td>The label that issued the release</td>
</tr>
<tr>
<td>releaseOf</td>
<td>MusicAlbum</td>
<td>The album this is a release of.</td>
</tr>
<tr>
<td>track</td>
<td>MusicRecording</td>
<td>The track(s) contained on the release.</td>
</tr>
</tbody>
</table>

**CreativeWork**

Thing > CreativeWork already exists. I suggest adding the following to model where a work has been released.

<table>
<thead>
<tr>
<th>Property</th>
<th>Expected Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>releaseEvent</td>
<td>PublicationEvent</td>
<td>The place and time the release was issued, expressed as a PublicationEvent.</td>
</tr>
<tr>
<td>producer</td>
<td>Person or Organization</td>
<td>The person or organization who produced the work. Note: This property exists on a number of sub-classes of CreativeWork. This proposal moves the property up to CreativeWork.</td>
</tr>
</tbody>
</table>

An example of a single release of the **Beatles White Album**, which was released in the US and Canada on different dates.
"@context": "http://schema.org",
"@type": "MusicRelease",
"name": "The Beatles",
"alternateName": "White Album",
"musicReleaseFormat": "http://schema.org/VinylFormat",
"duration": "PT1H33M50S",
"inLanguage": "EN",
"recordLabel": {
   "@type": "Organization",
   "@id": "http://musicbrainz.org/label/cf7fc5cf-e011-4ef4-b511-
   cd0188537910",
   "name": "Apple Records",
},
"catalogNumber": "SWBO 101",
"releasedEvent": [
   {
      "@type": "PublicationEvent",
      "startDate": "1968-11-22",
      "location": {
         "@type": "Country",
         "name": "Canada"
      }
   },
   {
      "@type": "PublicationEvent",
      "startDate": "1968-11-25",
      "location": {
         "@type": "Country",
         "name": "United States"
      }
   }
],
"producer": [
   {
      "@type": "Person",
      "name": "George Martin",
   },
   {
      "@type": "Person",
      "name": "Chris Thomas",
   }
]
MusicReleaseFormatType
MusicReleaseFormatType is an enumeration describing the recording medium of the release. The acceptable values are:
- CassetteFormat
- CDFormat
- DVDFormat
- DigitalFormat
- DigitalAudioTapeFormat
- LaserDiscFormat
- VinylFormat

Organization
The Organization type already exists in schema.org. To aid reconciling groups, I suggest adding:

<table>
<thead>
<tr>
<th>Property</th>
<th>Expected Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>foundingLocation</td>
<td>Place</td>
<td>The place where the Organization was founded.</td>
</tr>
</tbody>
</table>

Person
The Person type already exists in schema.org. To aid reconciling solo artists, I propose the following new properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Expected Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>birthPlace</td>
<td>Place</td>
<td>The place where the person was born.</td>
</tr>
<tr>
<td>deathPlace</td>
<td>Place</td>
<td>The place where the person died.</td>
</tr>
</tbody>
</table>