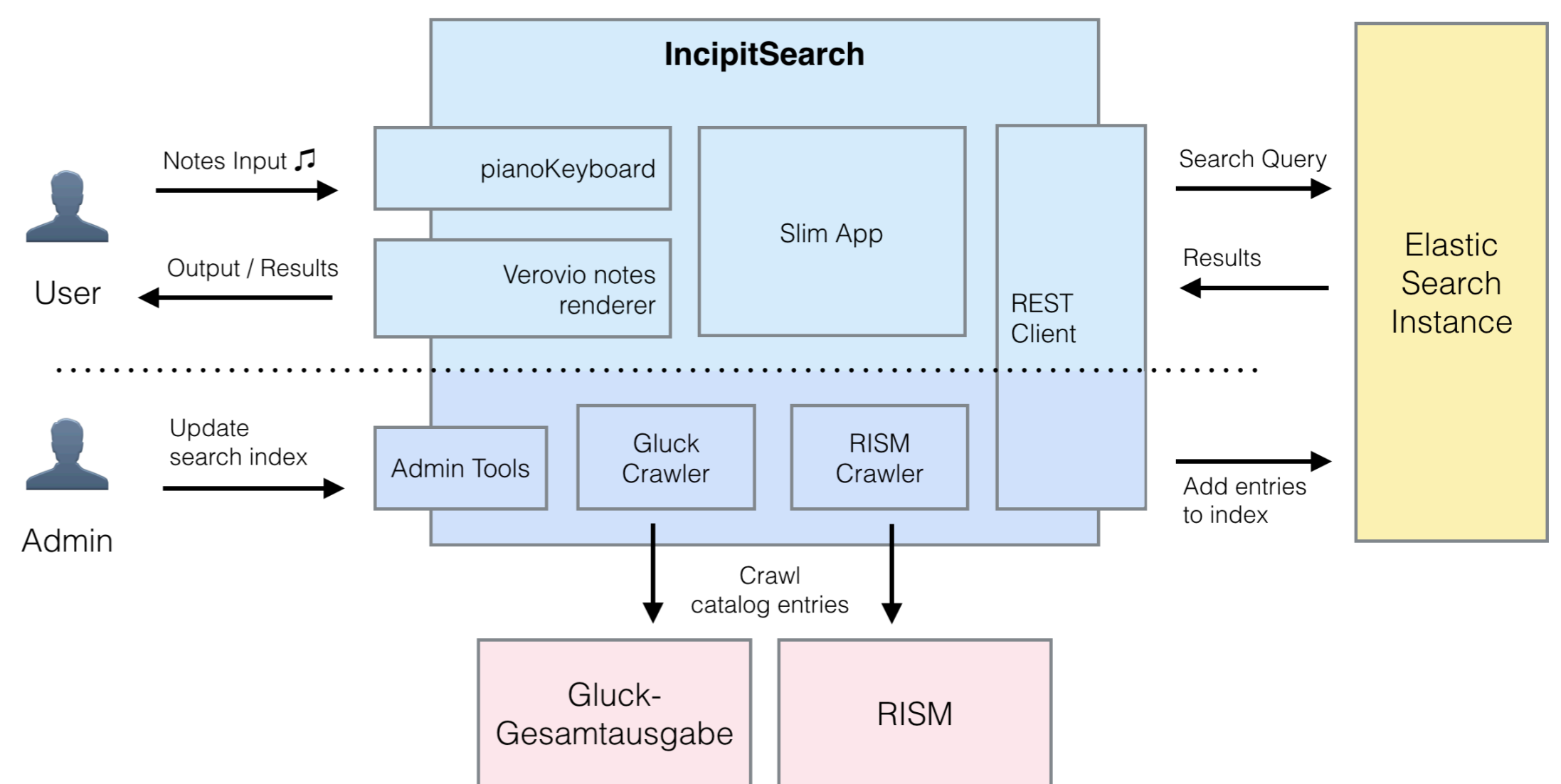
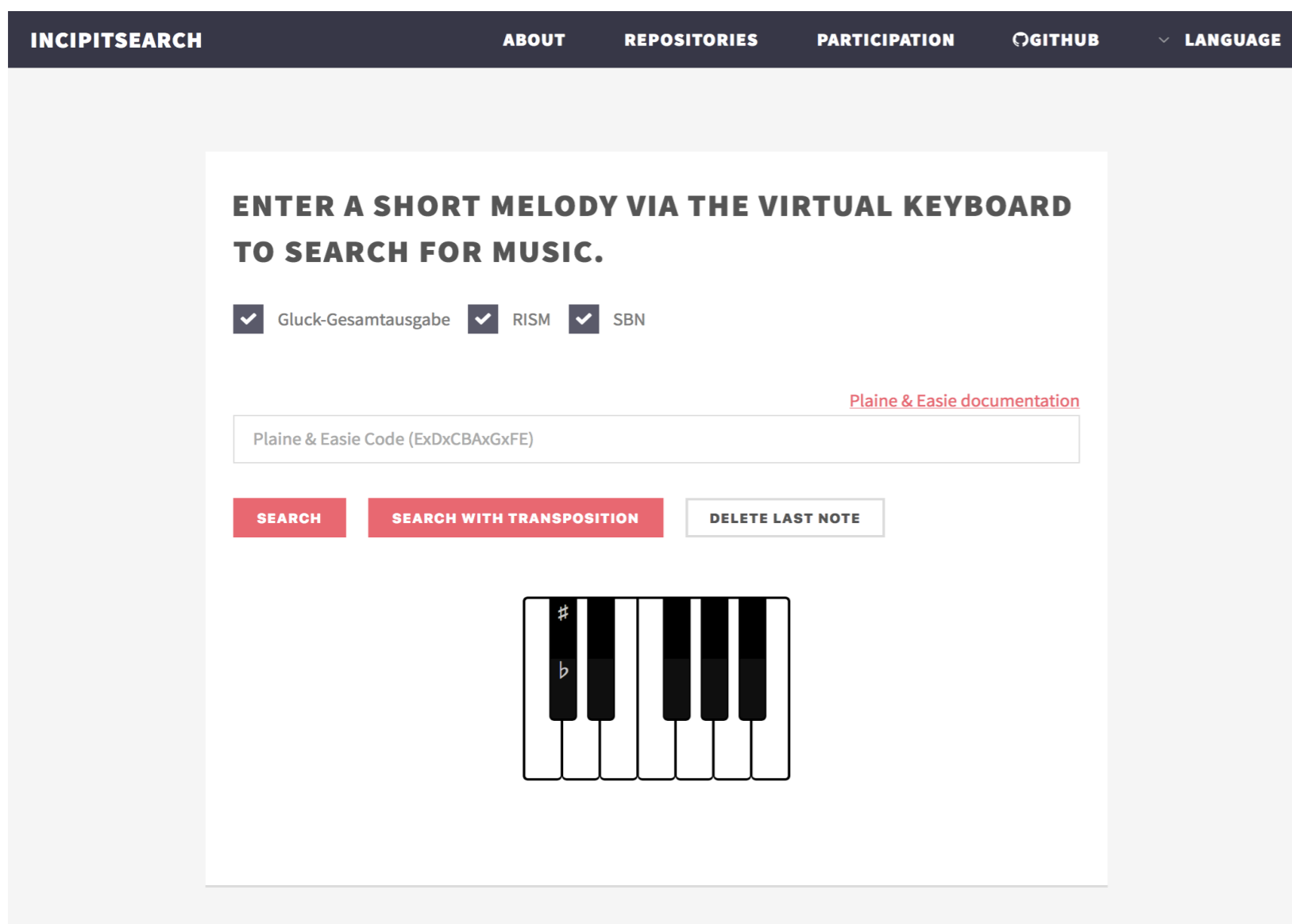




# EXCHANGING MUSICAL METADATA WITH INCIPITSEARCH

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## Integration of repositories

- different types of repositories (digital / analogue source catalogues, work catalogues etc.)
- different types of integrated data (RDF/XML, MARC XML, HTML)
- data aggregation via custom crawlers or IncipitSearch RDF metadata format in Turtle Serialization

## IncipitSearch API

- all aggregated content available as open data
- JSON API: elasticsearch endpoint
- can be used to implement incipit search functionality in other repositories

## RDF metadata format

- using schema.org vocabulary to add semantic information to web content
- data type MusicComposition with own extension MusicIncipit
- JSON-LD serialization to enrich web output

```

1 {
2   "@context": "http://schema.org",
3   "type": "Dataset",
4   "id": "https://incipitsearch.adwmainz.net/en/results/?repository%5B%5D=GluckWV-online&
5     repository%5B%5D=RISM&repository%5B%5D=SBN&incipit=%274C%274D%274E4D",
6   "hasPart": [
7     {
8       "type": "MusicComposition",
9       "url": "http://www.gluck-gesamtausgabe.de/id/01-25-00-0#parts&1498",
10      "name": "Le Diable à quatre, ou La Double Métamorphose",
11      "alternativeHeadline": "No. 9 Ariette: \"Quel plaisir me transporte?\" (Margot)",
12      "composer": [{
13        "@type": "Person",
14        "name": "Christoph Willibald Gluck"
15      }],
16      "hasPart": [{
17        "type": "MusicIncipit",
18        "incipitValue": "4C8D/EDC/C'BA/4G8F/4E8G/{AF}'C/'BG''D/C'G''E/D'G'-/ G 3/8
19          CEDCCBAGFEGAFCEBDCGEDG",
20        "incipitClef": "G",
21        "incipitKeysig": "",
22        "incipitTimesig": "3/8"
23      }]}
24 ]
25 }

```

```

"hits": {
  "total": 1,
  "max_score": null,
  "hits": [
    {
      "_index": "catalog_entries",
      "_type": "catalogEntry",
      "_id": "GluckWV-online-01-25-00-0-1301",
      "_score": null,
      "_source": {
        "catalog": "GluckWV-online",
        "catalogItemID": "01-25-00-0-1301",
        "dataUID": 1301,
        "dataURL": "http://www.gluck-gesamtausgabe.de/rdf/collection/works/01-25-00-0",
        "detailURL": "http://www.gluck-gesamtausgabe.de/id/01-25-00-0#parts&1498",
        "incipit": {
          "notes": "'4C8D/EDC/C'BA/4G8F/4E8G/{AF}'C/'BG''D/C'G''E/D'G'-/",
          "clef": "G",
          "accidentals": "",
          "time": "3/8",
          "completeIncipit": "%G$@3/8'4C8D/EDC/C'BA/4G8F/4E8G/{AF}'C/'BG''D/C'G''E/D'G'-/",
          "normalizedToSingleOctave": "CEDCCBAGFEGAFCEBDCGEDG",
          "withoutOrnaments": "CEDCCBAGFEGAFCEBDCGEDG",
          "normalizedToPitch": "'C'D'E'D'C'B'A'G'F'E'G'A'F'C'B'G'D'C'G''E'D'G",
          "transposedNotes": "0 2 4 2 0 0 11 9 7 5 4 7 9 5 0 11 7 2 0 7 4 2 7 ",
          "transposedNotesWithoutOrnaments": "0 2 4 2 0 0 11 9 7 5 4 7 9 5 0 11 7 2 0 7 4 2 7 "
        },
        "composer": "Christoph Willibald Gluck",
        "title": "Le Diable à quatre, ou La Double Métamorphose",
        "subTitle": "No. 9 Ariette: \"Quel plaisir me transporte?\" (Margot)",
        "year": ""
      }
    }
  ],
  "sort": [
    "Le Diable à quatre, ou La Double Métamorphose"
  ]
}

```