

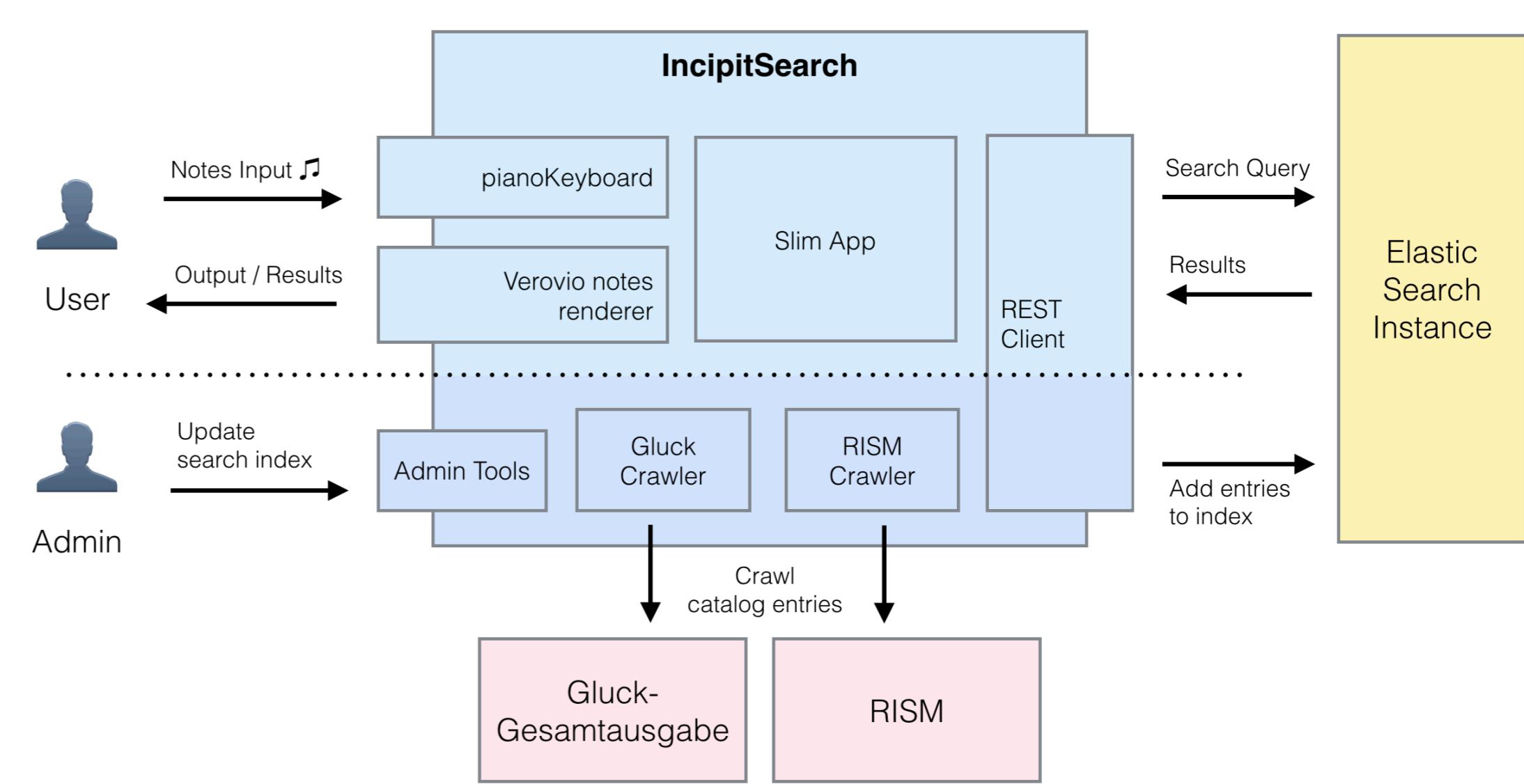


# EXCHANGING MUSICAL METADATA WITH INCIPITSEARCH

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The screenshot shows the IncipitSearch web application. At the top, there's a navigation bar with links for 'ABOUT', 'REPOSITORIES', 'PARTICIPATION', 'GITHUB', and 'LANGUAGE'. Below the navigation, a section titled 'ENTER A SHORT MELODY VIA THE VIRTUAL KEYBOARD TO SEARCH FOR MUSIC.' contains a virtual keyboard with black and white keys. There are checkboxes for 'Gluck-Gesamtausgabe', 'RISM', and 'SBN'. Below the keyboard is a text input field labeled 'Plaine & Easie documentation' containing 'Plaine & Easie Code (ExDxCBAxGxFE)'. Below that are buttons for 'SEARCH', 'SEARCH WITH TRANSPOSITION', and 'DELETE LAST NOTE'. At the bottom of the interface is a small image of a piano keyboard.



## 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      {
9        "type": "MusicComposition",
10       "url": "http://www.gluck-gesamtausgabe.de/id/01-25-00-0#parts&1498",
11       "name": "Le Diable à quatre, ou La Double Métamorphose",
12       "alternativeHeadline": "No. 9 Ariette: \"Quel plaisir me transporte?\" (Margot)",
13       "composer": [
14         {
15           "@type": "Person",
16           "name": "Christoph Willibald Gluck"
17         }
18       ],
19       "hasPart": [
20         {
21           "type": "MusicIncipit",
22           "incipitValue": "4C8D/EDC/C'BA/4G8F/4E8G/{AF}'C/'BG''D/C'G''E/D'G-/ G 3/8
23             CDEDCCBAGFEGACBGBDCGEDG",
24           "incipitClef": "G",
25           "incipitKeysig": "",
26           "incipitTimesig": "3/8"
27         }
28       ]
29     }
30   }
31 }
```

```

{
  "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$83/8'4C8D/EDC/C'BA/4G8F/4E8G/{AF}'C/'BG''D/C'G''E/D'G-/",
            "normalizedToSingleOctave": "CDEDCCBAGFEGACBGBDCGEDG",
            "withoutOrnaments": "CDEDCCBAGFEGACBGBDCGEDG",
            "normalizedToPitch": "'C''D''E''D' 'C' '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"
        ]
      }
    ]
  }
}
```