Öffnen und Analyse der Datei
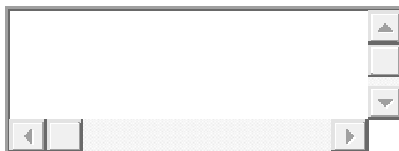
Importieren des csv-Moduls

```
import csv
```

Öffnen der Datei als Variable

```
file = open("./aussonderung.csv", "r")
```

Verifizierung des Typs

```
type(file)
_io.TextIOWrapper
```
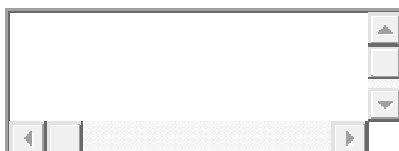
```
print(file)
<_io.TextIOWrapper name='./aussonderung.csv' mode='r' encoding='cp1252'>
```
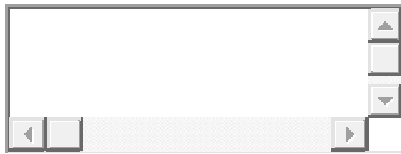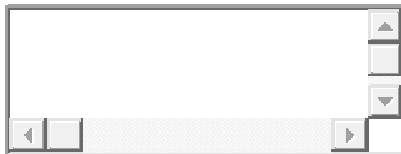
Anzeigen des Inhaltes

```
content = file.readlines()
content
['HT019793989\n', 'HT020379995\n', 'HT020319679\n', 'HT014682026\n']
```

Kürzeres Öffnen der Datei als Liste samt Festlegung einer Variable

```
with open('./aussonderung.csv', 'r') as infile:
    titles = infile.readlines()
```

Verifizierung des Typs

```
type(titles)
list
```

Anzeige der Liste
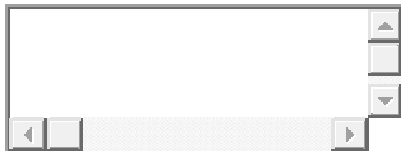
```
titles
['HT019793989\n', 'HT020379995\n', 'HT020319679\n', 'HT014682026\n']
```

Anzahl der Listenelemente

```
print(len(titles))
4
```

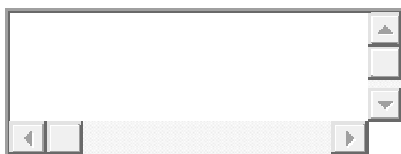## Anzeige der Listenelemente

```
for item in titles:
    print(item)
HT019793989

HT020379995

HT020319679

HT014682026
```

Alternatives Öffnen der Datei und Kürzung der Strings der Listenelemente

```
with open('./aussonderung.csv', 'r') as infile:
    for line in infile:
        print(line.strip())
HT019793989
HT020379995
HT020319679
HT014682026
```

Kurzversion
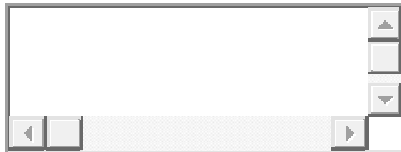
```
for line in open('./aussonderung.csv', 'r'):
    print(line.strip())
HT019793989
HT020379995
HT020319679
HT014682026
```

Schleifenabfrage

Festlegung der Variable für die Grund-URL der verwendeten API
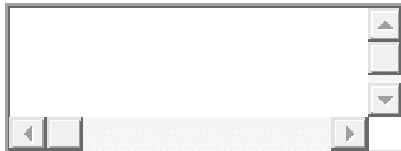
```
url = 'https://lobid.org/resources/'
```

Anzeige der zusammengesetzten URLs aus Grund-URL und HT-Nummern aus der Liste
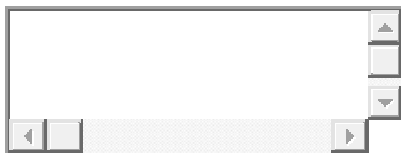
```
for item in titles:
    nexturl=url+item
    print(nexturl)
https://lobid.org/resources/HT019793989

https://lobid.org/resources/HT020379995

https://lobid.org/resources/HT020319679

https://lobid.org/resources/HT014682026
```

Importieren des requests-Moduls

```
import requests
```

Schleifenabfrage und Verifizierung
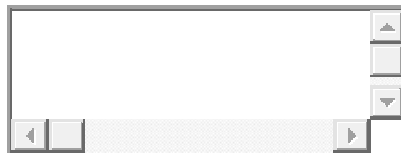
```
for item in titles:
    r = requests.get(url + line.strip())
    print(r)
<Response [200]>
<Response [200]>
<Response [200]>
<Response [200]>
```

Anzeige des Typs
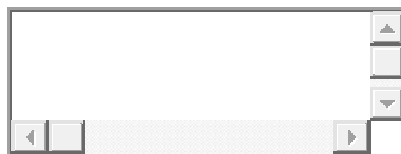
```
type(r)
requests.models.Response
```

Anzeige Status Code
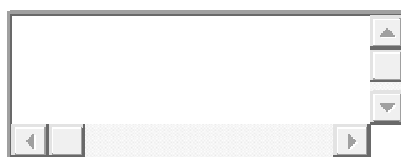
```
r.status_code
200
```

Anzeige Header
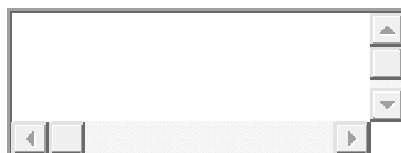
```
r.headers
{'Date': 'Wed, 24 Jun 2020 07:27:04 GMT', 'Server': 'Apache/2.4.10
(Linux/SUSE)', 'Content-Type': 'application/json; charset=utf-8', 'Access-
Control-Allow-Origin': '*', 'Vary': 'Accept-Encoding', 'Content-Encoding':
'gzip', 'Content-Length': '1840', 'Keep-Alive': 'timeout=15, max=512',
'Connection': 'Keep-Alive'}
```

Anzeige des Content Types des Headers

```
r.headers['Content-Type']
'application/json; charset=utf-8'
```

Schleifenabfrage mit dem erfolgreichen Versuch, sämtliche Titel anzeigen zu lassen

```
for line in open('./aussonderung.csv', 'r'):
    r = requests.get('https://lobid.org/resources/'+line.strip())
    print(r.text)
```
```json
{
  "type" : [ "Thesis", "Book", "BibliographicResource" ],
  "contribution" : [ {
    "type" : [ "Contribution" ],
    "agent" : {
      "id" : "https://d-nb.info/gnd/1165883198",
      "type" : [ "Person" ],
      "label" : "Hoffmann, Kristin",
      "altLabel" : "Bernhardt, Kristin",
      "gndIdentifier" : "1165883198"
    },
    "role" : {
      "id" : "http://id.loc.gov/vocabulary/relators/cre",
      "label" : "Autor/in"
    }
  }, {
    "type" : [ "Contribution" ],
    "agent" : {
      "id" : "https://d-nb.info/gnd/129167142",
      "type" : [ "Person" ],
      "label" : "Beck, Günter W.",
      "altLabel" : [ "Beck, G. W.", "Beck, Guenter W.", "Beck, Guenter
Wilfried", "Beck, Günter Wilfried", "Beck, G.", "Beck, Günter", "Beck,
Guenter" ],
      "gndIdentifier" : "129167142"
    },
    "role" : {
      "id" : "http://id.loc.gov/vocabulary/relators/dgs",
      "label" : "Akademische Prüfungsperson"
    }
  }, {
    "type" : [ "Contribution" ],
    "agent" : {
      "id" : "https://d-nb.info/gnd/64850-4",
      "type" : [ "CorporateBody" ],
      "label" : "Universität Siegen",
      "altLabel" : [ "Université Siegen", "Universität-GH Siegen",
"University Siegen", "Siegen University", "Universität GH Siegen",
"Universität-Gesamthochschule Siegen", "Universität - Gesamthochschule
```

```
      Siegen", "Gesamthochschule Siegen. Universität Siegen", "Universität.
Siegen", "University of Siegen" ],
        "gndIdentifier" : "64850-4"
      },
      "role" : {
        "id" : "http://id.loc.gov/vocabulary/relators/dgg",
        "label" : "Hochschule"
      }
    } ],
    "extent" : "iv, 110 Seiten",
    "hasItem" : [ {
      "id" : "http://lobid.org/items/HT019793989:DE-467:08ZZZB28793#!",
      "type" : [ "Item" ],
      "heldBy" : {
        "id" : "http://lobid.org/organisations/DE-467#!",
        "label" : "lobid Organisation"
      },
      "note" : "W_MAG",
      "callNumber" : "08ZZZB28793",
      "label" : "08ZZZB28793"
    } ],
    "responsibilityStatement" : [ "vorgelegt von Kristin Hoffmann, geb.
Bernhardt ; Erstgutachter: Prof. Dr. Günter W. Beck" ],
    "language" : [ {
      "id" : "http://id.loc.gov/vocabulary/iso639-2/eng",
      "label" : "Englisch"
    } ],
    "medium" : [ {
      "id" : "http://rdaregistry.info/termList/RDAproductionMethod/1010",
      "label" : "Print"
    } ],
    "related" : [ {
      "id" : "http://lobid.org/resources/HT019794029#!",
      "label" : "Regional finance and growth"
    } ],
    "title" : "Regional finance and growth",
    "hbzId" : "HT019793989",
    "thesisInformation" : [ "Universität Siegen, Dissertation, 2018" ],
    "otherTitleInformation" : [ "empirical evidence on the relationship
between financial and economic development on the local level" ],
    "natureOfContent" : [ {
      "id" : "https://d-nb.info/gnd/4113937-9",
      "label" : "Hochschulschrift"
    } ],
    "publication" : [ {
      "type" : [ "PublicationEvent" ],
      "location" : "Siegen",
      "startDate" : "2018"
    } ],
    "sameAs" : [ {
      "id" : "http://hub.culturegraph.org/resource/HBZ-HT019793989",
      "label" : "Culturegraph Ressource"
    } ],
    "describedBy" : {
      "id" : "http://lobid.org/resources/HT019793989",
      "type" : [ "BibliographicDescription" ],
      "dateCreated" : "20180831",
      "inDataset" : {
        "id" : "http://lobid.org/resources/dataset#!",
        "label" : "lobid-resources – Der hbz-Verbundkatalog als Linked Open
Data"
      },
      "resultOf" : {
```

```json
      "type" : [ "CreateAction" ],
      "endTime" : "2020-06-21T01:42:59",
      "instrument" : {
        "id" : "https://github.com/hbz/lobid-resources",
        "type" : [ "SoftwareApplication" ],
        "label" : "Software lobid-resources"
      },
      "object" : {
        "id" : "http://lobid.org/hbz01/HT019793989",
        "type" : [ "DataFeedItem" ],
        "inDataset" : {
          "id" : "https://datahub.io/dataset/hbz_unioncatalog",
          "label" : "hbz_unioncatalog"
        },
        "label" : "hbz-Ressource HT019793989 im Exportformat MAB2-XML"
      }
    },
    "license" : [ {
      "id" : "http://creativecommons.org/publicdomain/zero/1.0",
      "label" : "Creative Commons-Lizenz CC0 1.0 Universal"
    } ],
    "sourceOrganization" : {
      "id" : "http://lobid.org/organisations/DE-467#!",
      "label" : "lobid Organisation"
    },
    "label" : "Webseite der hbz-Ressource HT019793989"
  },
  "@context" : "http://lobid.org/resources/context.jsonld",
  "id" : "http://lobid.org/resources/HT019793989#!"
}
{
  "type" : [ "Thesis", "Book", "BibliographicResource" ],
  "contribution" : [ {
    "type" : [ "Contribution" ],
    "agent" : {
      "id" : "https://d-nb.info/gnd/1205400621",
      "type" : [ "Person" ],
      "label" : "Tabassam, Nadra",
      "gndIdentifier" : "1205400621"
    },
    "role" : {
      "id" : "http://id.loc.gov/vocabulary/relators/cre",
      "label" : "Autor/in"
    }
  }, {
    "type" : [ "Contribution" ],
    "agent" : {
      "id" : "https://d-nb.info/gnd/138974063",
      "type" : [ "Person" ],
      "label" : "Obermaisser, Roman",
      "altLabel" : "Obermaisser, R.",
      "gndIdentifier" : "138974063"
    },
    "role" : {
      "id" : "http://id.loc.gov/vocabulary/relators/dgs",
      "label" : "Akademische Prüfungsperson"
    }
  }, {
    "type" : [ "Contribution" ],
    "agent" : {
      "id" : "https://d-nb.info/gnd/64850-4",
      "type" : [ "CorporateBody" ],
      "label" : "Universität Siegen",
```

```
      "altLabel" : [ "Université Siegen", "Universität-GH Siegen",
"University Siegen", "Siegen University", "Universität GH Siegen",
"Universität-Gesamthochschule Siegen", "Universität - Gesamthochschule
Siegen", "Gesamthochschule Siegen. Universität Siegen", "Universität.
Siegen", "University of Siegen" ],
      "gndIdentifier" : "64850-4"
    },
    "role" : {
      "id" : "http://id.loc.gov/vocabulary/relators/dgg",
      "label" : "Hochschule"
    }
  } ],
  "extent" : "xviii, 146 Seiten",
  "hasItem" : [ {
    "id" : "http://lobid.org/items/HT020379995:DE-467:09ZZXA20583#!",
    "type" : [ "Item" ],
    "heldBy" : {
      "id" : "http://lobid.org/organisations/DE-467#!",
      "label" : "lobid Organisation"
    },
    "note" : "H_MAG",
    "callNumber" : "09ZZXA20583",
    "label" : "09ZZXA20583"
  }, {
    "id" : "http://lobid.org/items/HT020379995:DE-467:08ZZZB30300#!",
    "type" : [ "Item" ],
    "heldBy" : {
      "id" : "http://lobid.org/organisations/DE-467#!",
      "label" : "lobid Organisation"
    },
    "note" : "W_MAG",
    "callNumber" : "08ZZZB30300",
    "label" : "08ZZZB30300"
  } ],
  "responsibilityStatement" : [ "submitted by Nadra Tabassam ; Supervisor
and First Appraiser: Prof. Dr. Roman Obermaisser, University of Siegen" ],
  "language" : [ {
    "id" : "http://id.loc.gov/vocabulary/iso639-2/eng",
    "label" : "Englisch"
  } ],
  "medium" : [ {
    "id" : "http://rdaregistry.info/termList/RDAproductionMethod/1010",
    "label" : "Print"
  } ],
  "related" : [ {
    "id" : "http://lobid.org/resources/HT020379999#!",
    "label" : "Minimizing the makespan of diagnostic multi-query graphs in
embedded real time systems"
  } ],
  "title" : "Minimizing the makespan of diagnostic multi-query graphs in
embedded real time systems",
  "hbzId" : "HT020379995",
  "thesisInformation" : [ "Universität Siegen, Dissertation, 2020" ],
  "natureOfContent" : [ {
    "id" : "https://d-nb.info/gnd/4113937-9",
    "label" : "Hochschulschrift"
  } ],
  "publication" : [ {
    "type" : [ "PublicationEvent" ],
    "location" : "Siegen",
    "startDate" : "2020"
  } ],
  "sameAs" : [ {
```

```
      "id" : "http://hub.culturegraph.org/resource/HBZ-HT020379995",
      "label" : "Culturegraph Ressource"
    } ],
  "describedBy" : {
    "id" : "http://lobid.org/resources/HT020379995",
    "type" : [ "BibliographicDescription" ],
    "dateCreated" : "20200226",
    "inDataset" : {
      "id" : "http://lobid.org/resources/dataset#!",
      "label" : "lobid-resources – Der hbz-Verbundkatalog als Linked Open
Data"
    },
    "resultOf" : {
      "type" : [ "CreateAction" ],
      "endTime" : "2020-06-21T01:07:01",
      "instrument" : {
        "id" : "https://github.com/hbz/lobid-resources",
        "type" : [ "SoftwareApplication" ],
        "label" : "Software lobid-resources"
      },
      "object" : {
        "id" : "http://lobid.org/hbz01/HT020379995",
        "type" : [ "DataFeedItem" ],
        "inDataset" : {
          "id" : "https://datahub.io/dataset/hbz_unioncatalog",
          "label" : "hbz_unioncatalog"
        },
        "label" : "hbz-Ressource HT020379995 im Exportformat MAB2-XML"
      }
    },
    "license" : [ {
      "id" : "http://creativecommons.org/publicdomain/zero/1.0",
      "label" : "Creative Commons-Lizenz CC0 1.0 Universal"
    } ],
    "sourceOrganization" : {
      "id" : "http://lobid.org/organisations/DE-467#!",
      "label" : "lobid Organisation"
    },
    "label" : "Webseite der hbz-Ressource HT020379995"
  },
  "@context" : "http://lobid.org/resources/context.jsonld",
  "id" : "http://lobid.org/resources/HT020379995#!"
}
{
  "type" : [ "Book", "Thesis", "BibliographicResource" ],
  "contribution" : [ {
    "type" : [ "Contribution" ],
    "agent" : {
      "id" : "https://d-nb.info/gnd/112151054X",
      "type" : [ "Person" ],
      "label" : "Löher, Jonas",
      "gndIdentifier" : "112151054X"
    },
    "role" : {
      "id" : "http://id.loc.gov/vocabulary/relators/cre",
      "label" : "Autor/in"
    }
  }, {
    "type" : [ "Contribution" ],
    "agent" : {
      "id" : "https://d-nb.info/gnd/112179967",
      "type" : [ "Person" ],
      "label" : "Welter, Friederike",
```

```
      "dateOfBirth" : "1962",
      "gndIdentifier" : "112179967"
    },
    "role" : {
      "id" : "http://id.loc.gov/vocabulary/relators/dgs",
      "label" : "Akademische Prüfungsperson"
    }
  }, {
    "type" : [ "Contribution" ],
    "agent" : {
      "id" : "https://d-nb.info/gnd/64850-4",
      "type" : [ "CorporateBody" ],
      "label" : "Universität Siegen",
      "altLabel" : [ "Université Siegen", "Universität-GH Siegen",
"University Siegen", "Siegen University", "Universität GH Siegen",
"Universität-Gesamthochschule Siegen", "Universität - Gesamthochschule
Siegen", "Gesamthochschule Siegen. Universität Siegen", "Universität.
Siegen", "University of Siegen" ],
      "gndIdentifier" : "64850-4"
    },
    "role" : {
      "id" : "http://id.loc.gov/vocabulary/relators/dgg",
      "label" : "Hochschule"
    }
  } ],
  "extent" : "IX, 129 Blätter",
  "hasItem" : [ {
    "id" : "http://lobid.org/items/HT020319679:DE-386-
42:WIR%20631%2F293#!",
    "type" : [ "Item" ],
    "heldBy" : {
      "id" : "http://lobid.org/organisations/DE-386-42#!",
      "label" : "lobid Organisation"
    },
    "note" : "GEB42",
    "callNumber" : "WIR 631/293",
    "label" : "WIR 631/293"
  }, {
    "id" : "http://lobid.org/items/HT020319679:DE-467:08ZZZB30122#!",
    "type" : [ "Item" ],
    "heldBy" : {
      "id" : "http://lobid.org/organisations/DE-467#!",
      "label" : "lobid Organisation"
    },
    "note" : "W_MAG",
    "callNumber" : "08ZZZB30122",
    "label" : "08ZZZB30122"
  } ],
  "responsibilityStatement" : [ "vorgelegt von Jonas Löher , M.Sc. ;
Erstgutachterin : Univ.-Prof. Dr . Friederike Welter" ],
  "language" : [ {
    "id" : "http://id.loc.gov/vocabulary/iso639-2/eng",
    "label" : "Englisch"
  } ],
  "medium" : [ {
    "id" : "http://rdaregistry.info/termList/RDAproductionMethod/1010",
    "label" : "Print"
  } ],
  "related" : [ {
    "id" : "http://lobid.org/resources/HT020319687#!",
    "label" : "Matching founders and funders in equity crowdfunding"
  } ],
  "subject" : [ {
```

```
    "type" : [ "ComplexSubject" ],
    "componentList" : [ {
      "id" : "https://d-nb.info/gnd/4078599-3",
      "type" : [ "SubjectHeading" ],
      "source" : {
        "id" : "https://d-nb.info/gnd/7749153-1",
        "label" : "Gemeinsame Normdatei (GND)"
      },
      "label" : "Unternehmensgründung",
      "gndIdentifier" : "4078599-3"
    }, {
      "id" : "https://d-nb.info/gnd/1041611064",
      "type" : [ "SubjectHeading" ],
      "source" : {
        "id" : "https://d-nb.info/gnd/7749153-1",
        "label" : "Gemeinsame Normdatei (GND)"
      },
      "label" : "Crowdfunding",
      "gndIdentifier" : "1041611064"
    } ],
    "label" : "Unternehmensgründung | Crowdfunding"
  } ],
  "title" : "Matching founders and funders in equity crowdfunding",
  "hbzId" : "HT020319679",
  "subjectAltLabel" : [ "Junges Unternehmen", "Business Start-Up",
"Geschäftsgründung", "Schwarmfinanzierung", "Firmengründung",
"Jungunternehmen", "Start-up-Unternehmen", "Startup-Unternehmen",
"Unternehmen / Gründung", "Betriebsgründung", "Existenzgründung",
"Gesellschaftsgründung" ],
  "thesisInformation" : [ "Universität Siegen, Dissertation, 2019" ],
  "natureOfContent" : [ {
    "id" : "https://d-nb.info/gnd/4113937-9",
    "label" : "Hochschulschrift"
  } ],
  "publication" : [ {
    "type" : [ "PublicationEvent" ],
    "location" : "Siegen",
    "startDate" : "2019"
  } ],
  "sameAs" : [ {
    "id" : "http://hub.culturegraph.org/resource/HBZ-HT020319679",
    "label" : "Culturegraph Ressource"
  } ],
  "describedBy" : {
    "id" : "http://lobid.org/resources/HT020319679",
    "type" : [ "BibliographicDescription" ],
    "modifiedBy" : {
      "id" : "http://lobid.org/organisations/DE-386#!",
      "label" : "lobid Organisation"
    },
    "dateCreated" : "20191218",
    "dateModified" : "20200205",
    "inDataset" : {
      "id" : "http://lobid.org/resources/dataset#!",
      "label" : "lobid-resources – Der hbz-Verbundkatalog als Linked Open
Data"
    },
    "resultOf" : {
      "type" : [ "CreateAction" ],
      "endTime" : "2020-06-21T06:10:32",
      "instrument" : {
        "id" : "https://github.com/hbz/lobid-resources",
        "type" : [ "SoftwareApplication" ],
```

```
          "label" : "Software lobid-resources"
        },
        "object" : {
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          "type" : [ "DataFeedItem" ],
          "inDataset" : {
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            "label" : "hbz_unioncatalog"
          },
          "label" : "hbz-Ressource HT020319679 im Exportformat MAB2-XML"
        }
      },
      "license" : [ {
        "id" : "http://creativecommons.org/publicdomain/zero/1.0",
        "label" : "Creative Commons-Lizenz CC0 1.0 Universal"
      } ],
      "sourceOrganization" : {
        "id" : "http://lobid.org/organisations/DE-467#!",
        "label" : "lobid Organisation"
      },
      "label" : "Webseite der hbz-Ressource HT020319679"
    },
    "@context" : "http://lobid.org/resources/context.jsonld",
    "id" : "http://lobid.org/resources/HT020319679#!"
}
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  "contribution" : [ {
    "type" : [ "Contribution" ],
    "agent" : {
      "id" : "https://d-nb.info/gnd/115539778",
      "type" : [ "Person" ],
      "label" : "Hecken, Thomas",
      "dateOfBirth" : "1964",
      "gndIdentifier" : "115539778"
    },
    "role" : {
      "id" : "http://id.loc.gov/vocabulary/relators/cre",
      "label" : "Autor/in"
    }
  } ],
  "extent" : "218 S.",
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  }, {
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    "label" : "CQ950 H448"
  }, {
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    "callNumber" : "LF1565",
    "label" : "LF1565"
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    "type" : [ "Item" ],
    "heldBy" : {
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      "label" : "lobid Organisation"
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    "note" : "00058000",
    "callNumber" : "H 439/6 d",
    "label" : "H 439/6 d"
  }, {
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    "type" : [ "Item" ],
    "heldBy" : {
      "id" : "http://lobid.org/organisations/DE-Bm3-2#!",
      "label" : "lobid Organisation"
    },
    "note" : "F",
    "callNumber" : "AB 314/3",
    "label" : "AB 314/3"
  }, {
    "id" : "http://lobid.org/items/HT014682026:DE-294:CXB9423#!",
    "type" : [ "Item" ],
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      "label" : "lobid Organisation"
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    "callNumber" : "CXB9423",
    "label" : "CXB9423"
  }, {
    "id" : "http://lobid.org/items/HT014682026:DE-467:01AGPP1053#!",
    "type" : [ "Item" ],
    "heldBy" : {
      "id" : "http://lobid.org/organisations/DE-467#!",
      "label" : "lobid Organisation"
    },
    "note" : "H4",
    "callNumber" : "01AGPP1053",
    "label" : "01AGPP1053"
  }, {
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61:K%20Gf%20II%20311.1#!",
    "type" : [ "Item" ],
    "heldBy" : {
      "id" : "http://lobid.org/organisations/DE-294-61#!",
      "label" : "lobid Organisation"
    },
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    "callNumber" : "K Gf II 311.1",
    "label" : "K Gf II 311.1"
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    "id" : "http://lobid.org/items/HT014682026:DE-6-248:Ir%20455,18#!",
    "type" : [ "Item" ],
```

```
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      },
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      "label" : "Ir 455,18"
    }, {
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      "type" : [ "Item" ],
      "heldBy" : {
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        "label" : "lobid Organisation"
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      "callNumber" : "D 36043",
      "label" : "D 36043"
    }, {
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      "type" : [ "Item" ],
      "heldBy" : {
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        "label" : "lobid Organisation"
      },
      "note" : "E11",
      "callNumber" : "OHU2143",
      "label" : "OHU2143"
    }, {
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      "type" : [ "Item" ],
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        "label" : "lobid Organisation"
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    } ],
    "responsibilityStatement" : [ "Thomas Hecken" ],
    "description" : [ {
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bin/dokserv?id=2764211&prov=M&dok_var=1&dok_ext=htm",
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    } ],
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      "label" : "Deutsch"
    } ],
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      "label" : "Print"
    } ],
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          "label" : "Gemeinsame Normdatei (GND)"
        },
        "label" : "Gegenkultur",
        "gndIdentifier" : "4130375-1"
```
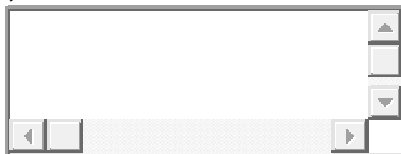
```
      }, {
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    } ],
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nrw.de/storage/2007/11/26/file_77/2210699.pdf",
      "label" : "2210699.pdf"
    } ],
    "title" : "Gegenkultur und Avantgarde 1950 - 1970",
    "hbzId" : "HT014682026",
    "subjectAltLabel" : [ "Alternative Kultur (Gegenkultur)",
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    "isbn" : [ "3772081576", "9783772081576" ],
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    "publication" : [ {
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    } ],
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      "label" : "181535840"
    }, {
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      "inDataset" : {
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Data"
      },
      "resultOf" : {
        "type" : [ "CreateAction" ],
        "endTime" : "2020-06-21T06:44:29",
        "instrument" : {
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          "type" : [ "SoftwareApplication" ],
          "label" : "Software lobid-resources"
        },
        "object" : {
          "id" : "http://lobid.org/hbz01/HT014682026",
          "type" : [ "DataFeedItem" ],
          "inDataset" : {
            "id" : "https://datahub.io/dataset/hbz_unioncatalog",
            "label" : "hbz_unioncatalog"
          },
          "label" : "hbz-Ressource HT014682026 im Exportformat MAB2-XML"
        }
      },
```

```
      "license" : [ {
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      } ],
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        "label" : "lobid Organisation"
      },
      "sourceOrganization" : {
        "id" : "http://lobid.org/organisations/DE-82#!",
        "label" : "lobid Organisation"
      },
      "label" : "Webseite der hbz-Ressource HT014682026"
    },
    "@context" : "http://lobid.org/resources/context.jsonld",
    "id" : "http://lobid.org/resources/HT014682026#!"
}
```

r.text

'{\n "type" : ["BibliographicResource", "Book"],\n "contribution" : [
{\n   "type" : ["Contribution"],\n   "agent" : {\n   "id" :
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}\n }],\n "extent" : "218 S.",\n "hasItem" : [{\n   "id" :
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439/6 d",\n   "label" : "H 439/6 d"\n }, {\n   "id" :
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"http://lobid.org/organisations/DE-Bm3-2#!",\n   "label" : "lobid
Organisation"\n   },\n   "note" : "F",\n   "callNumber" : "AB 314/3",\n
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Organisation"\n   },\n   "note" : "00000013",\n   "callNumber" :
"CXB9423",\n   "label" : "CXB9423"\n }, {\n   "id" :
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"http://lobid.org/organisations/DE-294-61#!",\n   "label" : "lobid
Organisation"\n   },\n   "note" : "00061000",\n   "callNumber" : "K Gf
II 311.1",\n   "label" : "K Gf II 311.1"\n }, {\n   "id" :
"http://lobid.org/items/HT014682026:DE-6-248:Ir%20455,18#!",\n   "type" :
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"http://lobid.org/organisations/DE-6-248#!",\n   "label" : "lobid
Organisation"\n   },\n   "note" : "00016001",\n   "callNumber" : "Ir
455,18",\n   "label" : "Ir 455,18"\n }, {\n   "id" :
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"Item"],\n   "heldBy" : {\n   "id" :
"http://lobid.org/organisations/DE-290#!",\n   "label" : "lobid
Organisation"\n   },\n   "note" : "00000001",\n   "callNumber" : "D
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"Item"],\n   "heldBy" : {\n   "id" :
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Organisation"\n   },\n   "note" : "E11",\n   "callNumber" : "OHU2143",\n
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Organisation"\n   },\n   "note" : "01",\n   "callNumber" :
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"id" : "http://deposit.dnb.de/cgi-
bin/dokserv?id=2764211&prov=M&dok_var=1&dok_ext=htm",\n   "label" :
"dokserv?id=2764211&prov=M&dok_var=1&dok_ext=htm"\n }],\n "language" : [
{\n   "id" : "http://id.loc.gov/vocabulary/iso639-2/deu",\n   "label" :
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(GND)"\n   },\n   "label" : "Gegenkultur",\n   "gndIdentifier" :
"4130375-1"\n   }, {\n   "type" : ["SubjectHeading"],\n   "label"
: "Geschichte 1950-1970"\n   }],\n   "label" : "Gegenkultur | Geschichte
1950-1970"\n }],\n "tableOfContents" : [{\n   "id" : "http://digitale-
objekte.hbz-nrw.de/storage/2007/11/26/file_77/2210699.pdf",\n   "label" :
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1970",\n "hbzId" : "HT014682026",\n "subjectAltLabel" : ["Alternative
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"3772081576", "9783772081576"],\n "oclcNumber" : ["181535840"],\n
"otherTitleInformation" : ["Situationisten, Beatniks, 68er"],\n
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"Tübingen",\n   "publishedBy" : "Francke",\n   "startDate" : "2006"\n }
],\n "sameAs" : [{\n   "id" : "http://worldcat.org/oclc/181535840",\n
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Organisation"\n   },\n   "dateCreated" : "20060323",\n   "dateModified"
: "20060427",\n   "inDataset" : {\n   "id" :
"http://lobid.org/resources/dataset#!",\n   "label" : "lobid-resources –
Der hbz-Verbundkatalog als Linked Open Data"\n   },\n   "resultOf" : {\n
"type" : ["CreateAction"],\n   "endTime" : "2020-06-21T06:44:29",\n
"instrument" : {\n   "id" : "https://github.com/hbz/lobid-
resources",\n   "type" : ["SoftwareApplication"],\n   "label" :

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"http://lobid.org/hbz01/HT014682026",\n   "type" : ["DataFeedItem"
],\n   "inDataset" : {\n   "id" :
"https://datahub.io/dataset/hbz_unioncatalog",\n   "label" :
"hbz_unioncatalog"\n   },\n   "label" : "hbz-Ressource
HT014682026 im Exportformat MAB2-XML"\n   }\n   },\n   "license" : [
{\n   "id" : "http://creativecommons.org/publicdomain/zero/1.0",\n
"label" : "Creative Commons-Lizenz CC0 1.0 Universal"\n   }],\n
"provider" : {\n   "id" : "http://lobid.org/organisations/DE-292#!",\n
"label" : "lobid Organisation"\n   },\n   "sourceOrganization" : {\n
"id" : "http://lobid.org/organisations/DE-82#!",\n   "label" : "lobid
Organisation"\n   },\n   "label" : "Webseite der hbz-Ressource
HT014682026"\n },\n "@context" :
"http://lobid.org/resources/context.jsonld",\n "id" :
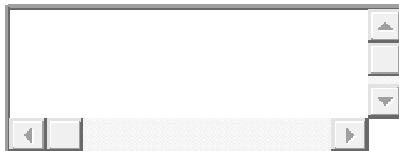"http://lobid.org/resources/HT014682026#!"\n}'

Sortierung und Analyse eines Response Objektes
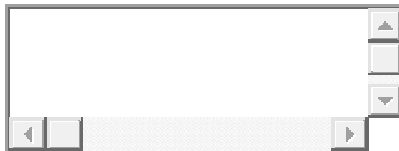
json-Modul importieren
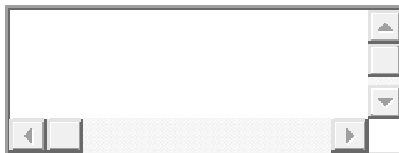
```
import json
```

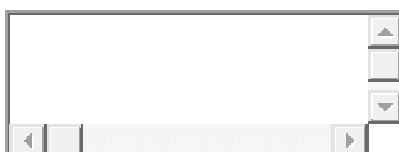### Variable festlegen für das json-Objekt

```
data = r.json()
```

Typ des json-Objektes anzeigen lassen

```
type(data)
dict
```

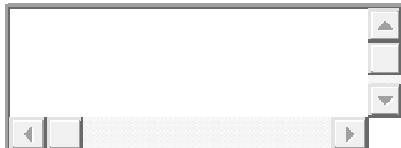### Dictionary anzeigen

```
print(data)
```

{'type': ['BibliographicResource', 'Book'], 'contribution': [{'type': ['Contribution'], 'agent': {'id': 'https://d-nb.info/gnd/115539778', 'type': ['Person'], 'label': 'Hecken, Thomas', 'dateOfBirth': '1964', 'gndIdentifier': '115539778'}, 'role': {'id': 'http://id.loc.gov/vocabulary/relators/cre', 'label': 'Autor/in'}}], 'extent': '218 S.', 'hasItem': [{'id': 'http://lobid.org/items/HT014682026:DE-708:OCW%2FHECK#!', 'type': ['Item'], 'heldBy': {'id': 'http://lobid.org/organisations/DE-708#!', 'label': 'lobid Organisation'}, 'note': '00', 'callNumber': 'OCW/HECK', 'label': 'OCW/HECK'}, {'id': 'http://lobid.org/items/HT014682026:DE-361:CQ950%20H448#!', 'type': ['Item'], 'heldBy': {'id': 'http://lobid.org/organisations/DE-361#!', 'label': 'lobid Organisation'}, 'note': '00000014', 'callNumber': 'CQ950 H448', 'label': 'CQ950 H448'}, {'id': 'http://lobid.org/items/HT014682026:DE-82:LF1565#!', 'type': ['Item'], 'heldBy': {'id': 'http://lobid.org/organisations/DE-82#!', 'label': 'lobid Organisation'}, 'note': '00000000', 'callNumber': 'LF1565', 'label': 'LF1565'}, {'id': 'http://lobid.org/items/HT014682026:DE-5-7:H%20439%2F6%20d#!', 'type': ['Item'], 'heldBy': {'id': 'http://lobid.org/organisations/DE-5-7#!', 'label': 'lobid Organisation'}, 'note': '00058000', 'callNumber': 'H 439/6 d', 'label': 'H 439/6 d'}, {'id': 'http://lobid.org/items/HT014682026:DE-Bm3-2:AB%20314%2F3#!', 'type': ['Item'], 'heldBy': {'id': 'http://lobid.org/organisations/DE-Bm3-2#!', 'label': 'lobid Organisation'}, 'note': 'F', 'callNumber': 'AB 314/3', 'label': 'AB 314/3'}, {'id': 'http://lobid.org/items/HT014682026:DE-294:CXB9423#!', 'type': ['Item'], 'heldBy': {'id': 'http://lobid.org/organisations/DE-294#!', 'label': 'lobid Organisation'}, 'note': '00000013', 'callNumber': 'CXB9423', 'label': 'CXB9423'}, {'id': 'http://lobid.org/items/HT014682026:DE-467:01AGPP1053#!', 'type': ['Item'], 'heldBy': {'id': 'http://lobid.org/organisations/DE-467#!', 'label': 'lobid Organisation'}, 'note': 'H4', 'callNumber': '01AGPP1053', 'label': '01AGPP1053'}, {'id': 'http://lobid.org/items/HT014682026:DE-294-61:K%20Gf%20II%20311.1#!', 'type': ['Item'], 'heldBy': {'id': 'http://lobid.org/organisations/DE-294-61#!', 'label': 'lobid Organisation'}, 'note': '00061000', 'callNumber': 'K Gf II 311.1', 'label': 'K Gf II 311.1'}, {'id': 'http://lobid.org/items/HT014682026:DE-6-248:Ir%20455,18#!', 'type': ['Item'], 'heldBy': {'id': 'http://lobid.org/organisations/DE-6-248#!', 'label': 'lobid Organisation'}, 'note': '00016001', 'callNumber': 'Ir 455,18', 'label': 'Ir 455,18'}, {'id': 'http://lobid.org/items/HT014682026:DE-290:D%2036043#!', 'type': ['Item'], 'heldBy': {'id': 'http://lobid.org/organisations/DE-290#!', 'label': 'lobid Organisation'}, 'note': '00000001', 'callNumber': 'D 36043', 'label': 'D 36043'}, {'id': 'http://lobid.org/items/HT014682026:DE-465:OHU2143#!', 'type': ['Item'], 'heldBy': {'id': 'http://lobid.org/organisations/DE-465#!', 'label': 'lobid Organisation'}, 'note': 'E11', 'callNumber': 'OHU2143', 'label': 'OHU2143'}, {'id': 'http://lobid.org/items/HT014682026:DE-61:alge975.h448#!', 'type': ['Item'], 'heldBy': {'id': 'http://lobid.org/organisations/DE-61#!', 'label': 'lobid Organisation'}, 'note': '01', 'callNumber': 'alge975.h448', 'label': 'alge975.h448'}], 'responsibilityStatement': ['Thomas Hecken'], 'description': [{'id': 'http://deposit.dnb.de/cgi-bin/dokserv?id=2764211&prov=M&dok_var=1&dok_ext=htm', 'label': 'dokserv?id=2764211&prov=M&dok_var=1&dok_ext=htm'}], 'language': [{'id': 'http://id.loc.gov/vocabulary/iso639-2/deu', 'label': 'Deutsch'}], 'medium': [{'id': 'http://rdaregistry.info/termList/RDAproductionMethod/1010', 'label': 'Print'}], 'subject': [{'type': ['ComplexSubject'], 'componentList': [{'id': 'https://d-nb.info/gnd/4130375-1', 'type': ['SubjectHeading'], 'source': {'id': 'https://d-nb.info/gnd/7749153-1', 'label': 'Gemeinsame Normdatei (GND)'}, 'label': 'Gegenkultur', 'gndIdentifier': '4130375-1'}, {'type': ['SubjectHeading'], 'label': 'Geschichte 1950-1970'}], 'label': 'Gegenkultur | Geschichte 1950-1970'}], 'tableOfContents': [{'id': 'http://digitale-objekte.hbz-

nrw.de/storage/2007/11/26/file_77/2210699.pdf', 'label': '2210699.pdf'}],
'title': 'Gegenkultur und Avantgarde 1950 - 1970', 'hbzId': 'HT014682026',
'subjectAltLabel': ['Alternative Kultur (Gegenkultur)', 'Alternativkultur
(Gegenkultur)'], 'isbn': ['3772081576', '9783772081576'], 'oclcNumber':
['181535840'], 'otherTitleInformation': ['Situationisten, Beatniks, 68er'],
'publication': [{'type': ['PublicationEvent'], 'location': 'Tübingen',
'publishedBy': 'Francke', 'startDate': '2006'}], 'sameAs': [{'id':
'http://worldcat.org/oclc/181535840', 'label': '181535840'}, {'id':
'http://hub.culturegraph.org/resource/HBZ-HT014682026', 'label':
'Culturegraph Ressource'}], 'describedBy': {'id':
'http://lobid.org/resources/HT014682026', 'type':
['BibliographicDescription'], 'modifiedBy': {'id':
'http://lobid.org/organisations/DE-467#!', 'label': 'lobid Organisation'},
'dateCreated': '20060323', 'dateModified': '20060427', 'inDataset': {'id':
'http://lobid.org/resources/dataset#!', 'label': 'lobid-resources – Der
hbz-Verbundkatalog als Linked Open Data'}, 'resultOf': {'type':
['CreateAction'], 'endTime': '2020-06-21T06:44:29', 'instrument': {'id':
'https://github.com/hbz/lobid-resources', 'type': ['SoftwareApplication'],
'label': 'Software lobid-resources'}, 'object': {'id':
'http://lobid.org/hbz01/HT014682026', 'type': ['DataFeedItem'],
'inDataset': {'id': 'https://datahub.io/dataset/hbz_unioncatalog', 'label':
'hbz_unioncatalog'}, 'label': 'hbz-Ressource HT014682026 im Exportformat
MAB2-XML'}}, 'license': [{'id':
'http://creativecommons.org/publicdomain/zero/1.0', 'label': 'Creative
Commons-Lizenz CC0 1.0 Universal'}], 'provider': {'id':
'http://lobid.org/organisations/DE-292#!', 'label': 'lobid Organisation'},
'sourceOrganization': {'id': 'http://lobid.org/organisations/DE-82#!',
'label': 'lobid Organisation'}, 'label': 'Webseite der hbz-Ressource
HT014682026'}, '@context': 'http://lobid.org/resources/context.jsonld',
'id': 'http://lobid.org/resources/HT014682026#!'}

In human-readable Form bringen

```
print(json.dumps(data, indent=2))
{
  "type": [
    "BibliographicResource",
    "Book"
  ],
  "contribution": [
    {
      "type": [
        "Contribution"
      ],
      "agent": {
        "id": "https://d-nb.info/gnd/115539778",
        "type": [
          "Person"
        ],
        "label": "Hecken, Thomas",
        "dateOfBirth": "1964",
        "gndIdentifier": "115539778"
      },
      "role": {
        "id": "http://id.loc.gov/vocabulary/relators/cre",
        "label": "Autor/in"
      }
```

```json
      }
    ],
    "extent": "218 S.",
    "hasItem": [
      {
        "id": "http://lobid.org/items/HT014682026:DE-708:OCW%2FHECK#!",
        "type": [
          "Item"
        ],
        "heldBy": {
          "id": "http://lobid.org/organisations/DE-708#!",
          "label": "lobid Organisation"
        },
        "note": "00",
        "callNumber": "OCW/HECK",
        "label": "OCW/HECK"
      },
      {
        "id": "http://lobid.org/items/HT014682026:DE-361:CQ950%20H448#!",
        "type": [
          "Item"
        ],
        "heldBy": {
          "id": "http://lobid.org/organisations/DE-361#!",
          "label": "lobid Organisation"
        },
        "note": "00000014",
        "callNumber": "CQ950 H448",
        "label": "CQ950 H448"
      },
      {
        "id": "http://lobid.org/items/HT014682026:DE-82:LF1565#!",
        "type": [
          "Item"
        ],
        "heldBy": {
          "id": "http://lobid.org/organisations/DE-82#!",
          "label": "lobid Organisation"
        },
        "note": "00000000",
        "callNumber": "LF1565",
        "label": "LF1565"
      },
      {
        "id": "http://lobid.org/items/HT014682026:DE-5-7:H%20439%2F6%20d#!",
        "type": [
          "Item"
        ],
        "heldBy": {
          "id": "http://lobid.org/organisations/DE-5-7#!",
          "label": "lobid Organisation"
        },
        "note": "00058000",
        "callNumber": "H 439/6 d",
        "label": "H 439/6 d"
      },
      {
        "id": "http://lobid.org/items/HT014682026:DE-Bm3-2:AB%20314%2F3#!",
        "type": [
          "Item"
        ],
        "heldBy": {
          "id": "http://lobid.org/organisations/DE-Bm3-2#!",
```

```
      "label": "lobid Organisation"
    },
    "note": "F",
    "callNumber": "AB 314/3",
    "label": "AB 314/3"
  },
  {
    "id": "http://lobid.org/items/HT014682026:DE-294:CXB9423#!",
    "type": [
      "Item"
    ],
    "heldBy": {
      "id": "http://lobid.org/organisations/DE-294#!",
      "label": "lobid Organisation"
    },
    "note": "00000013",
    "callNumber": "CXB9423",
    "label": "CXB9423"
  },
  {
    "id": "http://lobid.org/items/HT014682026:DE-467:01AGPP1053#!",
    "type": [
      "Item"
    ],
    "heldBy": {
      "id": "http://lobid.org/organisations/DE-467#!",
      "label": "lobid Organisation"
    },
    "note": "H4",
    "callNumber": "01AGPP1053",
    "label": "01AGPP1053"
  },
  {
    "id": "http://lobid.org/items/HT014682026:DE-294-
61:K%20Gf%20II%20311.1#!",
    "type": [
      "Item"
    ],
    "heldBy": {
      "id": "http://lobid.org/organisations/DE-294-61#!",
      "label": "lobid Organisation"
    },
    "note": "00061000",
    "callNumber": "K Gf II 311.1",
    "label": "K Gf II 311.1"
  },
  {
    "id": "http://lobid.org/items/HT014682026:DE-6-248:Ir%20455,18#!",
    "type": [
      "Item"
    ],
    "heldBy": {
      "id": "http://lobid.org/organisations/DE-6-248#!",
      "label": "lobid Organisation"
    },
    "note": "00016001",
    "callNumber": "Ir 455,18",
    "label": "Ir 455,18"
  },
  {
    "id": "http://lobid.org/items/HT014682026:DE-290:D%2036043#!",
    "type": [
      "Item"
```

```
    ],
    "heldBy": {
      "id": "http://lobid.org/organisations/DE-290#!",
      "label": "lobid Organisation"
    },
    "note": "00000001",
    "callNumber": "D 36043",
    "label": "D 36043"
  },
  {
    "id": "http://lobid.org/items/HT014682026:DE-465:OHU2143#!",
    "type": [
      "Item"
    ],
    "heldBy": {
      "id": "http://lobid.org/organisations/DE-465#!",
      "label": "lobid Organisation"
    },
    "note": "E11",
    "callNumber": "OHU2143",
    "label": "OHU2143"
  },
  {
    "id": "http://lobid.org/items/HT014682026:DE-61:alge975.h448#!",
    "type": [
      "Item"
    ],
    "heldBy": {
      "id": "http://lobid.org/organisations/DE-61#!",
      "label": "lobid Organisation"
    },
    "note": "01",
    "callNumber": "alge975.h448",
    "label": "alge975.h448"
  }
],
"responsibilityStatement": [
  "Thomas Hecken"
],
"description": [
  {
    "id": "http://deposit.dnb.de/cgi-
bin/dokserv?id=2764211&prov=M&dok_var=1&dok_ext=htm",
    "label": "dokserv?id=2764211&prov=M&dok_var=1&dok_ext=htm"
  }
],
"language": [
  {
    "id": "http://id.loc.gov/vocabulary/iso639-2/deu",
    "label": "Deutsch"
  }
],
"medium": [
  {
    "id": "http://rdaregistry.info/termList/RDAproductionMethod/1010",
    "label": "Print"
  }
],
"subject": [
  {
    "type": [
      "ComplexSubject"
    ],
```

```json
      "componentList": [
        {
          "id": "https://d-nb.info/gnd/4130375-1",
          "type": [
            "SubjectHeading"
          ],
          "source": {
            "id": "https://d-nb.info/gnd/7749153-1",
            "label": "Gemeinsame Normdatei (GND)"
          },
          "label": "Gegenkultur",
          "gndIdentifier": "4130375-1"
        },
        {
          "type": [
            "SubjectHeading"
          ],
          "label": "Geschichte 1950-1970"
        }
      ],
      "label": "Gegenkultur | Geschichte 1950-1970"
    }
  ],
  "tableOfContents": [
    {
      "id": "http://digitale-objekte.hbz-
nrw.de/storage/2007/11/26/file_77/2210699.pdf",
      "label": "2210699.pdf"
    }
  ],
  "title": "Gegenkultur und Avantgarde 1950 - 1970",
  "hbzId": "HT014682026",
  "subjectAltLabel": [
    "Alternative Kultur (Gegenkultur)",
    "Alternativkultur (Gegenkultur)"
  ],
  "isbn": [
    "3772081576",
    "9783772081576"
  ],
  "oclcNumber": [
    "181535840"
  ],
  "otherTitleInformation": [
    "Situationisten, Beatniks, 68er"
  ],
  "publication": [
    {
      "type": [
        "PublicationEvent"
      ],
      "location": "T\u00fcbingen",
      "publishedBy": "Francke",
      "startDate": "2006"
    }
  ],
  "sameAs": [
    {
      "id": "http://worldcat.org/oclc/181535840",
      "label": "181535840"
    },
    {
      "id": "http://hub.culturegraph.org/resource/HBZ-HT014682026",
```

```json
      "label": "Culturegraph Ressource"
    }
  ],
  "describedBy": {
    "id": "http://lobid.org/resources/HT014682026",
    "type": [
      "BibliographicDescription"
    ],
    "modifiedBy": {
      "id": "http://lobid.org/organisations/DE-467#!",
      "label": "lobid Organisation"
    },
    "dateCreated": "20060323",
    "dateModified": "20060427",
    "inDataset": {
      "id": "http://lobid.org/resources/dataset#!",
      "label": "lobid-resources \u2013 Der hbz-Verbundkatalog als Linked
Open Data"
    },
    "resultOf": {
      "type": [
        "CreateAction"
      ],
      "endTime": "2020-06-21T06:44:29",
      "instrument": {
        "id": "https://github.com/hbz/lobid-resources",
        "type": [
          "SoftwareApplication"
        ],
        "label": "Software lobid-resources"
      },
      "object": {
        "id": "http://lobid.org/hbz01/HT014682026",
        "type": [
          "DataFeedItem"
        ],
        "inDataset": {
          "id": "https://datahub.io/dataset/hbz_unioncatalog",
          "label": "hbz_unioncatalog"
        },
        "label": "hbz-Ressource HT014682026 im Exportformat MAB2-XML"
      }
    },
    "license": [
      {
        "id": "http://creativecommons.org/publicdomain/zero/1.0",
        "label": "Creative Commons-Lizenz CC0 1.0 Universal"
      }
    ],
    "provider": {
      "id": "http://lobid.org/organisations/DE-292#!",
      "label": "lobid Organisation"
    },
    "sourceOrganization": {
      "id": "http://lobid.org/organisations/DE-82#!",
      "label": "lobid Organisation"
    },
    "label": "Webseite der hbz-Ressource HT014682026"
  },
  "@context": "http://lobid.org/resources/context.jsonld",
  "id": "http://lobid.org/resources/HT014682026#!"
}
```

Anzeigen der Schlüssel

```
print(data.keys())
dict_keys(['type', 'contribution', 'extent', 'hasItem',
'responsibilityStatement', 'description', 'language', 'medium', 'subject',
'tableOfContents', 'title', 'hbzId', 'subjectAltLabel', 'isbn',
'oclcNumber', 'otherTitleInformation', 'publication', 'sameAs',
'describedBy', '@context', 'id'])
```

Festlegen der Variable für den zu untersuchenden Key
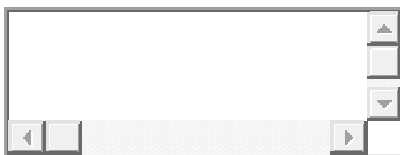
```
holding = data['hasItem']
```

Typ des Keys anzeigen
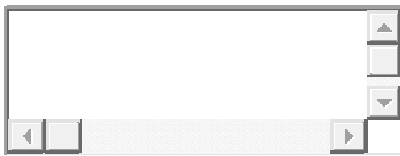
```
print(type(holding))
<class 'list'>
```

Anzahl der Elemente in der Liste ausgeben

```
print(len(holding))
12
```

Variable für die Anzahl der Elemente aus der Liste festlegen

```
x = len(holding)
```

Prüfung, ob die zu untersuchende Bedingung erfüllt ist

```
if x > 1 == True:
    print("True")
else:
    print("False")
True
```
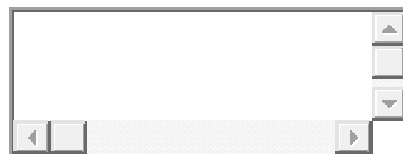
Ausgabe der Ergebnisse

Festlegung der Variable für den Key, aus dem die zu schreibende HT-Nummer entnommen wird
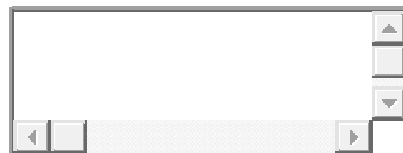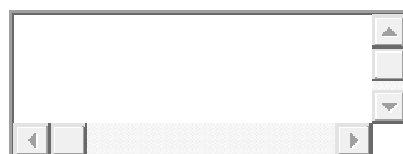
```
ht = data['id']
```
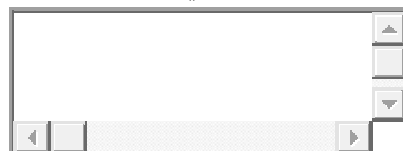
Anzeige des Ausgabe-Wertes

```
print(ht)
http://lobid.org/resources/HT014682026#!
```

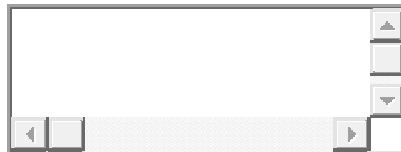### Kürzung auf den zu schreibenden Wert in zwei Schritten

```
ht_strip = ht.strip("http://lobid.org/resources/")
print(ht_strip)
HT014682026#!
```

```
ht_number = ht_strip.strip("#!")
print(ht_number)
HT014682026
```

Bedingung für das Schreiben des Wertes in die jeweilige Ausgabe-Datei

```
if x > 1 == True:
    with open('./loeschliste.csv', 'w') as outfile1:
        outfile1.writelines(ht_number)
else:
    with open('./alleinbesitz.csv', 'w') as outfile2:
        outfile2.writelines(ht_number)
```