

In[*]:=

```
<<lily`arXiv`
```

```
connect to arXiv API
```

In[*]:=

```
arXivConnect[]
```

```
set the file names
```

```
(*default setting*)  
(*fileNameFormat["ID"<>" "<>"title"<>" "<>"firstAuthor"];*)
```

```
test data
```

```
pathSource="put the path of source PDF files here";  
pathTarget="put the download path here";  
  
pathExample=pathSource  
fileExample=FileNames[ "__~".pdf"~~EndOfString,pathSource][[1]]  
stringExample=fileNameInPath[pathSource][[1]]<>fileNameInPath[pathSource][[-1]]
```

Extract, search and download by arXiv ID

extractID

```
extractID[]@stringExample
```

In[*]:=

```
extractID["file","tryFileName"→False]@fileExample  
extractID["file","tryFileName"→True]@fileExample
```

In[*]:=

```
extractID["path"]@pathExample  
extractID["path","mergeDuplicateID"→False]@pathExample
```

searchByID

In[*]:=

```
searchByID[]@stringExample
```

In[*]:=

```
searchByID["file"]@fileExample
```

In[*]:=

```
searchByID["path"]@pathExample
```

downloadByID

In[*]:=

```
downloadByID[pathTarget]@stringExample
```

```
In[*]:= downloadByID[pathTarget,"file"]@fileExample
```

```
In[*]:= downloadByID[pathTarget,"path"]@pathExample
```

Extract, search and download by title

extractTitle

```
In[*]:= extractTitle["file","YResolution"→200]@fileExample  
extractTitle["file"]@fileExampleList
```

```
In[*]:= extractTitle["path","titleExtractMethod"→"sortYAndFontSize"]@pathExample
```

```
In[*]:= extractTitle["path","titleExtractMethod"→"plusYAndFontSize","YResolution"→25]@pathExample
```

searchByTitle

```
In[*]:= searchByTitle["file"]@fileExample
```

```
In[*]:= searchByTitle["path"]@pathExample
```

downloadByTitle

```
In[*]:= downloadByTitle[pathTarget,"file"]@fileExample
```

```
In[*]:= downloadByTitle[pathTarget,"path"]@pathExample
```