

UsageExample

#Project Usage Example

Download Repo

```
rm(list = ls())
#cred <- git2r::cred_user_pass(rstudioapi::askForPassword("username"), rstudioapi::askForPassword("Password"))
#devtools::install_git("https://git-inf.technikum-wien.at/finance/finance2021/pkgs/pittl_hafner_luo.git")

#alternative:
devtools::install_git("https://github.com/anevruser/finance.git")
```

```
## Skipping install of 'pittlHafnerLuo' from a git2r remote, the SHA1 (66cd7ebd) has not changed since last install.
## Use 'force = TRUE' to force installation
```

```
#devtools::install_git("https://git-inf.technikum-wien.at/finance/finance2021/pkgs/catsar.git", credentials = cred)
```

```
library(pittlHafnerLuo)
```

Help

```
?pittlHafnerLuo::get_index
```

```
## starting httpd help server ... done
```

Usage Examples

FCS

Unfortunately, the ATX is not supported by that API!

```
pittlHafnerLuo::get_index("Dow Jones", "fcs", "united-states")
```

```
## ATTENTION: you are using fcsapi with an access key. If you use that method too often, the the continuation token will be exhausted.
```

```
## # A tibble: 30 x 8
##   symbol company identifier sedol weight sector shares_held local_currency
##   <chr>   <chr>   <lgl>      <lgl> <lgl>  <chr>   <lgl>       <chr>
```

```
## 1 BA Boeing NA NA NA Capital ~ NA USD
## 2 CVX Chevron NA NA NA Energy NA USD
## 3 CAT Caterpil~ NA NA NA Capital ~ NA USD
## 4 INTC Intel NA NA NA Technolo~ NA USD
## 5 MSFT Microsoft NA NA NA Technolo~ NA USD
## 6 DIS Walt Dis~ NA NA NA Services NA USD
## 7 DOW Dow NA NA NA Basic Ma~ NA USD
## 8 CSCO Cisco NA NA NA Technolo~ NA USD
## 9 GS Goldman ~ NA NA NA Financial NA USD
## 10 JPM JPMorgan NA NA NA Financial NA USD
## # ... with 20 more rows
```

```
Sys.sleep(60)
pittlHafnerLuo::get_index("DAX","fcs","germany")
```

ATTENTION: you are using fcsapi with an access key. If you use that method too often, the the conti

```
## # A tibble: 30 x 8
##   symbol company identifier sedol weight sector shares_held local_currency
##   <chr> <chr> <lgl> <lgl> <lgl> <chr> <lgl> <chr>
## 1 BASFN BASF NA NA NA Basic M~ NA EUR
## 2 BAYGN Bayer NA NA NA Healthc~ NA EUR
## 3 ALVG Allianz NA NA NA Financi~ NA EUR
## 4 ADSGN Adidas NA NA NA Consume~ NA EUR
## 5 LHAG Lufthansa NA NA NA Transpo~ NA EUR
## 6 SIEGn Siemens AG NA NA NA Capital~ NA EUR
## 7 DBKGn Deutsche ~ NA NA NA Financi~ NA EUR
## 8 CONG Continent~ NA NA NA Consume~ NA EUR
## 9 DPWGn Deutsche ~ NA NA NA Services NA EUR
## 10 DAIGN Daimler NA NA NA Consume~ NA EUR
## # ... with 20 more rows
```

```
Sys.sleep(60)
pittlHafnerLuo::get_index("JASDAQ","fcs","japan")
```

ATTENTION: you are using fcsapi with an access key. If you use that method too often, the the conti

```
## # A tibble: 730 x 8
##   symbol company identifier sedol weight sector shares_held local_currency
##   <chr> <chr> <lgl> <lgl> <lgl> <chr> <lgl> <chr>
## 1 3189 ANAP NA NA NA Services NA JPY
## 2 7177 GMO Click~ NA NA NA Financi~ NA JPY
## 3 3536 Axas Hold~ NA NA NA Services NA JPY
## 4 3537 Shoei Yak~ NA NA NA Basic M~ NA JPY
## 5 3933 CHIeru Co NA NA NA Technol~ NA JPY
## 6 7185 Hirose Tu~ NA NA NA Financi~ NA JPY
## 7 1380 Akikawa F~ NA NA NA Consume~ NA JPY
## 8 1381 Axyz NA NA NA Consume~ NA JPY
## 9 1382 Hob NA NA NA Consume~ NA JPY
## 10 1383 Berg Earth NA NA NA Consume~ NA JPY
## # ... with 720 more rows
```

Yahoo Finance

```
pittlHafnerLuo::get_index("ATX")
```

```
##
```

```
## Getting data from https://finance.yahoo.com/quote/%5EATX/components?p=%5EATX
```

```
## # A tibble: 20 x 8
```

##	symbol	company	identifier	sedol	weight	sector	shares_held	local_currency
##	<chr>	<chr>	<lgl>	<lgl>	<dbl>	<chr>	<lgl>	<chr>
##	1	ANDR.VI	Andritz AG	NA	0.0321	Indus~	NA	EUR
##	2	POST.VI	Österreic~	NA	0.0373	Indus~	NA	EUR
##	3	DOC.VI	DO & CO A~	NA	0.00289	Indus~	NA	EUR
##	4	VIG.VI	Vienna In~	NA	0.00777	Finan~	NA	EUR
##	5	SPI.VI	S IMMO AG	NA	0.0101	Real ~	NA	EUR
##	6	IIA.VI	IMMOFINAN~	NA	0.0350	Real ~	NA	EUR
##	7	WIE.VI	Wienerber~	NA	0.0455	Basic~	NA	EUR
##	8	SBO.VI	Schoeller~	NA	0.00527	Energy	NA	EUR
##	9	CAI.VI	CA Immobi~	NA	0.0171	Real ~	NA	EUR
##	10	UQA.VI	UNIQA Ins~	NA	0.0587	Finan~	NA	EUR
##	11	LNZ.VI	Lenzing A~	NA	0.00613	Basic~	NA	EUR
##	12	EVN.VI	EVN AG	NA	0.00773	Utili~	NA	EUR
##	13	BG.VI	BAWAG Gro~	NA	0.0248	Finan~	NA	EUR
##	14	VOE.VI	Voestalpi~	NA	0.0800	Basic~	NA	EUR
##	15	VER.VI	VERBUND AG	NA	0.0323	Utili~	NA	EUR
##	16	OMV.VI	OMV Aktie~	NA	0.128	Energy	NA	EUR
##	17	MMK.VI	Mayr-Meln~	NA	0.00270	Consu~	NA	EUR
##	18	EBS.VI	Erste Gro~	NA	0.192	Finan~	NA	EUR
##	19	RBI.VI	Raiffeise~	NA	0.209	Finan~	NA	EUR
##	20	ATS.VI	AT & S Au~	NA	0.0655	Techn~	NA	EUR

```
pittlHafnerLuo::get_index("GDAXI") #identifiers are at least partly available
```

```
##
```

```
## Getting data from https://finance.yahoo.com/quote/%5EGDAXI/components?p=%5EGDAXI
```

```
## # A tibble: 30 x 8
```

##	symbol	company	identifier	sedol	weight	sector	shares_held	local_currency
##	<chr>	<chr>	<lgl>	<lgl>	<dbl>	<chr>	<lgl>	<chr>
##	1	ALV.DE	Allianz ~	NA	0.0143	Financ~	NA	EUR
##	2	DTE.DE	Deutsche~	NA	0.0907	Commun~	NA	EUR
##	3	HEN3.DE	Henkel A~	NA	0.00584	Consum~	NA	EUR
##	4	SIE.DE	Siemens ~	NA	0.0208	Indust~	NA	EUR
##	5	CON.DE	Continen~	NA	0.00474	Consum~	NA	EUR
##	6	DWNI.DE	Deutsche~	NA	0.0296	Real E~	NA	EUR
##	7	ENR.DE	Siemens ~	NA	0.0411	Utilit~	NA	EUR
##	8	BAS.DE	BASF SE	NA	0.0361	Basic ~	NA	EUR
##	9	FRE.DE	Freseniu~	NA	0.0164	Health~	NA	EUR
##	10	VOW3.DE	Volkswag~	NA	0.0152	Consum~	NA	EUR
##	#	... with 20 more rows						

For US shares, we also have identifiers and sedol!

```
pittlHafnerLuo::get_index("IXIC")
```

```
##
## Getting data from https://finance.yahoo.com/quote/%5EIXIC/components?p=%5EIXIC

## # A tibble: 30 x 8
##   symbol company identifier sedol weight sector shares_held local_currency
##   <chr> <chr> <chr> <chr> <dbl> <chr> <lgl> <chr>
## 1 HLAH Hamilton ~ <NA> <NA> 8.32e-5 Finan~ NA USD
## 2 FNKO Funko, In~ BF329J9 36100~ 3.78e-2 Consu~ NA USD
## 3 SCOA Scion Tec~ <NA> G3106~ 2.15e-3 Finan~ NA USD
## 4 TWST Twist Bio~ BGKG6G7 90184~ 9.67e-3 Healt~ NA USD
## 5 STRT Strattec ~ 2848714 86311~ 2.74e-4 Consu~ NA USD
## 6 CVCY Central V~ 2683313 15568~ 8.13e-4 Finan~ NA USD
## 7 NVCR NovoCure ~ BYSS4X4 G6674~ 1.25e-2 Healt~ NA USD
## 8 NEBC Nebula Ca~ <NA> <NA> 2.18e-2 Finan~ NA USD
## 9 FNLC The First~ 2353047 31866~ 6.06e-4 Finan~ NA USD
## 10 SCOB ScION Tec~ <NA> <NA> 1.58e-5 Finan~ NA USD
## # ... with 20 more rows
```

```
pittlHafnerLuo::get_index("OMX")
```

```
##
## Getting data from https://finance.yahoo.com/quote/%5EOMX/components?p=%5EOMX

## # A tibble: 30 x 8
##   symbol company identifier sedol weight sector shares_held local_currency
##   <chr> <chr> <lgl> <lgl> <dbl> <chr> <lgl> <chr>
## 1 TEL2-B~ Tele2 AB~ NA NA 0.0299 Commun~ NA SEK
## 2 ABB.ST ABB Ltd NA NA 0.0181 Indust~ NA SEK
## 3 ERIC-B~ Telefona~ NA NA 0.131 Techno~ NA SEK
## 4 SECU-B~ Securita~ NA NA 0.0139 Indust~ NA SEK
## 5 VOLV-B~ AB Volvo~ NA NA 0.0510 Indust~ NA SEK
## 6 SKA-B.~ Skanska ~ NA NA 0.00963 Indust~ NA SEK
## 7 INVE-B~ Investor~ NA NA 0.0491 Financ~ NA SEK
## 8 ASSA-B~ ASSA ABL~ NA NA 0.0158 Indust~ NA SEK
## 9 SWED-A~ Swedbank~ NA NA 0.0427 Financ~ NA SEK
## 10 ALIV-S~ Autoliv,~ NA NA 0.00282 Consum~ NA SEK
## # ... with 20 more rows
```

Also for that members, we get identifiers!

```
pittlHafnerLuo::get_index("IXIC") #nasdaq
```

```
##
## Getting data from https://finance.yahoo.com/quote/%5EIXIC/components?p=%5EIXIC

## # A tibble: 30 x 8
##   symbol company identifier sedol weight sector shares_held local_currency
```

##	<chr>	<chr>	<chr>	<chr>	<dbl>	<chr>	<lg1>	<chr>
## 1	HLAH	Hamilton ~	<NA>	<NA>	8.32e-5	Finan~	NA	USD
## 2	FNKO	Funko, In~	BF329J9	36100~	3.78e-2	Consu~	NA	USD
## 3	SCOA	Scion Tec~	<NA>	G3106~	2.15e-3	Finan~	NA	USD
## 4	TWST	Twist Bio~	BGKG6G7	90184~	9.67e-3	Healt~	NA	USD
## 5	STRT	Strattec ~	2848714	86311~	2.74e-4	Consu~	NA	USD
## 6	CVCY	Central V~	2683313	15568~	8.13e-4	Finan~	NA	USD
## 7	NVCR	NovoCure ~	BYSS4X4	G6674~	1.25e-2	Healt~	NA	USD
## 8	NEBC	Nebula Ca~	<NA>	<NA>	2.18e-2	Finan~	NA	USD
## 9	FNLC	The First~	2353047	31866~	6.06e-4	Finan~	NA	USD
## 10	SCOB	ScION Tec~	<NA>	<NA>	1.58e-5	Finan~	NA	USD

... with 20 more rows