Anime News Network - Popularity Top 50

*This is a practice to get the top 50 animes based on the popularity rank of Anime News Network.*

* Anime News Network

library(RCurl)

## Loading required package: bitops

library(XML)

* Define the http header

header = c(  
 "User-Agent"="Mozilla/5.0 (Windows; U; Windows NT 5.1; zh-CN; rv:1.9.1.6) ",  
 "Accept"="text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8",  
 "Accept-Language"="en-us",  
 "Connection"="keep-alive",  
 "Accept-Charset"="GB2312,utf-8;q=0.7,\*;q=0.7"  
)

* Simulate the access

url = "https://www.animenewsnetwork.com/encyclopedia/ratings-anime.php?top50=popular"  
webpage = getURL(url,httpheader=header)

* Manage the html tree structure

pagetree = htmlTreeParse(webpage,encoding="UTF-8", error=function(...){}, useInternalNodes = TRUE,trim=TRUE)

* Locate the node

xpath = getNodeSet(pagetree, "//td//a[@href]/text()")  
info = sapply(xpath,xmlValue)   
info

## [1] "Fullmetal Alchemist (TV)"   
## [2] "Death Note (TV)"   
## [3] "Cowboy Bebop (TV)"   
## [4] "Spirited Away (movie)"   
## [5] "Princess Mononoke (movie)"   
## [6] " Melancholy of Haruhi Suzumiya (TV)"   
## [7] "Elfen Lied (TV)"   
## [8] "Neon Genesis Evangelion (TV)"   
## [9] "Code Geass: Lelouch of the Rebellion (TV)"   
## [10] "Bleach (TV)"   
## [11] "FLCL (OAV)"   
## [12] "Code Geass: Lelouch of the Rebellion R2 (TV)"   
## [13] "Naruto (TV)"   
## [14] "Samurai Champloo (TV)"   
## [15] "Trigun (TV)"   
## [16] "Gurren Lagann (TV)"   
## [17] "Rurouni Kenshin: Trust & Betrayal (OAV)"   
## [18] "Full Metal Panic! (TV)"   
## [19] "Howl's Moving Castle (movie)"   
## [20] "Ouran High School Host Club (TV)"   
## [21] "Clannad (TV)"   
## [22] "Fullmetal Alchemist: Brotherhood (TV)"   
## [23] "Fruits Basket (TV)"   
## [24] "Chobits (TV)"   
## [25] "Cowboy Bebop: The Movie"   
## [26] "Full Metal Panic? Fumoffu (TV)"   
## [27] "Akira (movie)"   
## [28] "5 Centimeters Per Second (movie)"   
## [29] "Rurouni Kenshin (TV)"   
## [30] " Girl Who Leapt Through Time (movie)"   
## [31] "Ghost in the Shell (movie)"   
## [32] "Final Fantasy VII: Advent Children (movie)"   
## [33] "Hellsing (TV)"   
## [34] "Azumanga Daioh (TV)"   
## [35] "Clannad After Story (TV)"   
## [36] "Fullmetal Alchemist: The Movie - Conqueror of Shamballa"  
## [37] "Ghost in the Shell: Stand Alone Complex (TV)"   
## [38] "Mushi-Shi (TV)"   
## [39] "Darker than Black (TV)"   
## [40] "Fate/stay night (TV)"   
## [41] "Nausica<U+00E4> of the Valley of the Wind (movie)"   
## [42] "Claymore (TV)"   
## [43] "Inuyasha (TV)"   
## [44] "Full Metal Panic! The Second Raid (TV)"   
## [45] "Steins;Gate (TV)"   
## [46] "Toradora! (TV)"   
## [47] "Blood+ (TV)"   
## [48] "Castle in the Sky (movie)"   
## [49] "Black Lagoon (TV)"   
## [50] "Angel Beats! (TV)"