*Experiments*

*Ranking results using TF-IDF scores:*

how to make pancakes

1. https://www.usatoday.com/story/tech/2021/09/20/instagram-delete-deactivate-your-account/8354245002/,0.30307598489248516

2. https://www.theverge.com/22786305/how-to-delete-restore-instagram-account-web-app-temporarily-suspend,0.2826748835440203

3. https://www.creativebloq.com/how-to/delete-an-instagram-account,0.2762594797705408

4. https://how2foru.com/how-to-delete-your-instagram-account\_1189/,0.23082189730155736

5. https://www.vpnmentor.com/blog/how-to-delete-your-instagram-account-permanently/,0.09681245355044955

how to register to vote

1. https://www.wikihow.com/Download-YouTube-Videos,0.46978019587658226

2. https://www.kapwing.com/resources/how-to-download-videos-from-youtube-in-3-easy-steps/,0.44593493585831995

3. https://www.adamenfroy.com/how-to-download-youtube-videos,0.39357530469524055

4. https://www.msn.com/en-us/lifestyle/lifestyle-buzz/heres-how-to-deactivate-or-permanently-delete-your-instagram-account/ar-BBNZEmu,0.3501447451971316

5. https://youtubedownload.minitool.com/youtube/download-youtube-video.html,0.34154574721529013

6. https://vpnoverview.com/privacy/social-media/how-to-delete-instagram-account/,0.3271738700452134

7. https://famoid.com/how-to-download-videos-from-youtube/,0.3214628775177856

8. https://www.tomsguide.com/how-to/how-to-download-youtube-videos-on-iphone-android-mac-and-pc,0.3057904391476314

9. https://www.digitaltrends.com/computing/how-to-download-youtube-videos-on-mac-for-free/,0.27010653420233477

10. https://www.wikihow.com/Delete-an-Instagram-Account,0.26364434371085266

11. https://www.pcmag.com/how-to/how-to-download-youtube-videos,0.26150010625360837

12. https://srdtf.org/how-to-delete-instagram-account/,0.16504404937323555

13. https://www.vpnmentor.com/blog/how-to-delete-your-instagram-account-permanently/,0.14770546217489097

14. https://products.aspose.app/html/video-downloader/youtube,0.08743886951528344

how to lose weight

1. https://www.forbes.com/health/body/how-to-lose-weight-fast/,0.497470298139232

2. https://www.nhs.uk/live-well/healthy-weight/managing-your-weight/12-tips-to-help-you-lose-weight/,0.44487406667706153

3. https://www.truthaboutweight.com/discussing-weight-and-health/stick-to-your-weight-management-plan.html,0.32817631618206644

4. https://www.myalli.com/,0.31771585612852804

5. https://exipure.com/?hop=daohong,0.17476367644168886

6. https://asaafriq.com/,0.17430933599801413

7. https://www.noom.com/survey/basicHealthGoal,0

8. [1 Mon,0

9. https://www.nutrisystem.com/,0

how to delete instagram account

1. https://www.tasteofhome.com/recipes/fluffy-pancakes/,0.22019853487360622

2. https://cooking.nytimes.com/recipes/1018180-perfect-buttermilk-pancakes,0.16245383005417005

3. https://cooking.nytimes.com/recipes/1893-everyday-pancakes,0.14600606584563086

4. https://www.inspiredtaste.net/24593/essential-pancake-recipe/,0.10388293916789004

5. https://cafedelites.com/best-fluffy-pancakes/,0.08552228847221802

6. https://thestayathomechef.com/pancake-recipe/,0.08500612989163547

7. https://www.allrecipes.com/recipe/21014/good-old-fashioned-pancakes/,0

8. https://www.marthastewart.com/338185/basic-pancakes,0

9. https://www.allrecipes.com/recipe/162760/fluffy-pancakes/,0

how to download youtube videos

1. https://registertovote.ca.gov/,0.3022115216244181

2. https://www.wikihow.com/Register-to-Vote,0.264803337615752

3. https://www.votetexas.gov/register-to-vote/update-voter-registration.html,0.251135603180372

4. https://sos.iowa.gov/elections/voterinformation/voterregistration.html,0.20355893161727565

5. https://vote.gov/,0.18398623680933276

6. https://www.vote.org/am-i-registered-to-vote/,0.1419373178307678

7. https://www.eac.gov/how-can-i-register-vote,0.11739447782576956

8. https://www.usvotefoundation.org/vote/voter-registration-absentee-voting.htm,0.10800942729657187

9. https://www.usa.gov/register-to-vote,0.03538835779729269

*MAP score calculations:*

*MAP score = arithmetic mean of the average precision of the system for each topic*

*Unstemmed query and corpus:*

*Precisio@50= 10 / 50 = 1/5 = 0.2*

*Since |Rel| = 10 and |Res| = 50*

*Average precision = 1/10 \* ( 10 \* 0.2 ) = 0.2*

*MAP score for unstemmed query and corpus = ( 0.2 + 0.2 + 0.2 + 0.2 + 0.2 ) / 5 = 0.2*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **URL Result** | **pancakes** | | | **vote** | | **lose weight** | **instagram** | **youtube** |
| https://www.inspiredtaste.net/24593/essential-pancake-recipe/ | X | | |  | |  |  |  |
| https://www.allrecipes.com/recipe/21014/good-old-fashioned-pancakes/ | X | | |  | |  |  |  |
| https://cooking.nytimes.com/recipes/1893-everyday-pancakes | X | | |  | |  |  |  |
| https://www.marthastewart.com/338185/basic-pancakes | X | | |  | |  |  |  |
| https://cafedelites.com/best-fluffy-pancakes/ | X | | |  | |  |  |  |
| https://cooking.nytimes.com/recipes/1893-everyday-pancakes | X | | |  | |  |  |  |
| https://www.allrecipes.com/recipe/162760/fluffy-pancakes/ | X | | |  | |  |  |  |
| https://cooking.nytimes.com/recipes/1018180-perfect-buttermilk-pancakes | X | | |  | |  |  |  |
| https://thestayathomechef.com/pancake-recipe/ | X | | |  | |  |  |  |
| https://www.tasteofhome.com/recipes/fluffy-pancakes/ | X | | |  | |  |  |  |
| https://www.vote.org/am-i-registered-to-vote/ |  | | | X | |  |  |  |
| https://www.usvotefoundation.org/vote/voter-registration-absentee-voting.htm |  | | | X | |  |  |  |
| https://registertovote.ca.gov/ |  | | | X | |  |  |  |
| https://www.usa.gov/register-to-vote |  | | | X | |  |  |  |
| https://vote.gov/ |  | | | X | |  |  |  |
| https://www.usa.gov/register-to-vote |  | | | X | |  |  |  |
| https://www.eac.gov/how-can-i-register-vote |  | | | X | |  |  |  |
| https://www.wikihow.com/Register-to-Vote |  | | | X | |  |  |  |
| https://www.votetexas.gov/register-to-vote/update-voter-registration.html |  | | | X | |  |  |  |
| https://sos.iowa.gov/elections/voterinformation/voterregistration.html |  | | | X | |  |  |  |
| https://www.noom.com/survey/basicHealthGoal |  | | |  | | X |  |  |
| https://www.truthaboutweight.com/discussing-weight-and-health/stick-to-your-weight-management-plan.html |  | | |  | | X |  |  |
| https://www.nutrisystem.com/ |  | | |  | | X |  |  |
| https://asaafriq.com/ |  | | |  | | X |  |  |
| https://www.forbes.com/health/body/how-to-lose-weight-fast/ |  | | |  | | X |  |  |
| https://exipure.com/?hop=daohong |  | | |  | | X |  |  |
| https://www.myalli.com/ |  | | |  | | X |  |  |
| https://www.noom.com/survey/basicHealthGoal |  | | |  | | X |  |  |
| https://www.truthaboutweight.com/discussing-weight-and-health/stick-to-your-weight-management-plan.html |  | | |  | | X |  |  |
| https://www.nhs.uk/live-well/healthy-weight/managing-your-weight/12-tips-to-help-you-lose-weight/ |  | | |  | | X |  |  |
| https://www.creativebloq.com/how-to/delete-an-instagram-account | |  | | |  |  | X |  |
| https://www.theverge.com/22786305/how-to-delete-restore-instagram-account-web-app-temporarily-suspend | |  | | |  |  | X |  |
| https://www.usatoday.com/story/tech/2021/09/20/instagram-delete-deactivate-your-account/8354245002/ | |  | | |  |  | X |  |
| https://how2foru.com/how-to-delete-your-instagram-account\_1189/ | |  | | |  |  | X |  |
| https://www.vpnmentor.com/blog/how-to-delete-your-instagram-account-permanently/ | |  | | |  |  | X |  |
| https://srdtf.org/how-to-delete-instagram-account/ | |  | | |  |  | X |  |
| https://vpnoverview.com/privacy/social-media/how-to-delete-instagram-account/ | |  | | |  |  | X |  |
| https://www.msn.com/en-us/lifestyle/lifestyle-buzz/heres-how-to-deactivate-or-permanently-delete-your-instagram-account/ar-BBNZEmu | |  | | |  |  | X |  |
| https://www.wikihow.com/Delete-an-Instagram-Account | |  | | |  |  | X |  |
| https://www.vpnmentor.com/blog/how-to-delete-your-instagram-account-permanently/ | |  | | |  |  | X |  |
| https://www.adamenfroy.com/how-to-download-youtube-videos |  | |  | | |  |  | X |
| https://www.pcmag.com/how-to/how-to-download-youtube-videos |  | |  | | |  |  | X |
| https://www.digitaltrends.com/computing/how-to-download-youtube-videos-on-mac-for-free/ |  | |  | | |  |  | X |
| https://www.wikihow.com/Download-YouTube-Videos |  | |  | | |  |  | X |
| https://www.tomsguide.com/how-to/how-to-download-youtube-videos-on-iphone-android-mac-and-pc |  | |  | | |  |  | X |
| https://products.aspose.app/html/video-downloader/youtube |  | |  | | |  |  | X |
| https://www.wikihow.com/Download-YouTube-Videos |  | |  | | |  |  | X |
| https://www.kapwing.com/resources/how-to-download-videos-from-youtube-in-3-easy-steps/ |  | |  | | |  |  | X |
| https://youtubedownload.minitool.com/youtube/download-youtube-video.html |  | |  | | |  |  | X |
| https://famoid.com/how-to-download-videos-from-youtube/ |  | |  | | |  |  | X |

*Stemmed query and corpus with correct locale:*

*Topic: pancak*

*Precisio@50= 9 / 50 = 0.18*

*Since |Rel| = 9 and |Res| = 50*

*Average precision =1/9 \* (9\*0.18) = 0.18*

*Topic: vote*

*Precisio@50= 10 / 50 = 1/5 = 0.2*

*Since |Rel| = 10 and |Res| = 50*

*Average precision = 1/10 \* ( 10 \* 0.2 ) = 0.2*

*Topic: weight*

*Precisio@50= 7 / 50 = 0.14*

*Since |Rel| = 7 and |Res| = 50*

*Average precision = 1/7 \* (7 \*0.14) =0.137*

*Topic: instagram*

*Precisio@50= 10 / 50 = 1/5 = 0.2*

*Since |Rel| = 10 and |Res| = 50*

*Average precision = 1/10 \* ( 10 \* 0.2 ) = 0.2*

*Topic: youtub*

*Precisio@50= 10 / 50 = 1/5 = 0.2*

*Since |Rel| = 10 and |Res| = 50*

*Average precision = 1/10 \* ( 10 \* 0.2 ) = 0.2*

*MAP score for stemmed query and corpus correct locale =*

*( 0.18 + 0.2 + 0.137 + 0.2 + 0.2 ) / 5 = 0.18*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **URL Result** | **pancak** | **vote** | **weight** | **instagram** | **youtub** |
| https://www.inspiredtaste.net/24593/essential-pancake-recipe/ | X |  |  |  |  |
| https://www.allrecipes.com/recipe/21014/good-old-fashioned-pancakes/ | X |  |  |  |  |
| https://cooking.nytimes.com/recipes/1893-everyday-pancakes | X |  |  |  |  |
| https://www.marthastewart.com/338185/basic-pancakes | X |  |  |  |  |
| https://cafedelites.com/best-fluffy-pancakes/ | X |  |  |  |  |
| https://cooking.nytimes.com/recipes/1893-everyday-pancakes |  |  |  |  |  |
| https://www.allrecipes.com/recipe/162760/fluffy-pancakes/ | X |  |  |  |  |
| https://cooking.nytimes.com/recipes/1018180-perfect-buttermilk-pancakes | X |  |  |  |  |
| https://thestayathomechef.com/pancake-recipe/ | X |  |  |  |  |
| https://www.tasteofhome.com/recipes/fluffy-pancakes/ | X |  |  |  |  |
| https://www.vote.org/am-i-registered-to-vote/ |  | X |  |  |  |
| https://www.usvotefoundation.org/vote/voter-registration-absentee-voting.htm |  | X |  |  |  |
| https://registertovote.ca.gov/ |  | X |  |  |  |
| https://www.usa.gov/register-to-vote |  | X |  |  |  |
| https://vote.gov/ |  | X |  |  |  |
| https://www.usa.gov/register-to-vote |  | X |  |  |  |
| https://www.eac.gov/how-can-i-register-vote |  | X |  |  |  |
| https://www.wikihow.com/Register-to-Vote |  | X |  |  |  |
| https://www.votetexas.gov/register-to-vote/update-voter-registration.html |  | X |  |  |  |
| https://sos.iowa.gov/elections/voterinformation/voterregistration.html |  | X |  |  |  |
| https://www.noom.com/survey/basicHealthGoal |  |  |  |  |  |
| https://www.truthaboutweight.com/discussing-weight-and-health/stick-to-your-weight-management-plan.html |  |  | X |  |  |
| https://www.nutrisystem.com/ |  |  |  |  |  |
| https://asaafriq.com/ |  |  | X |  |  |
| https://www.forbes.com/health/body/how-to-lose-weight-fast/ |  |  | X |  |  |
| https://exipure.com/?hop=daohong |  |  | X |  |  |
| https://www.myalli.com/ |  |  | X |  |  |
| https://www.noom.com/survey/basicHealthGoal |  |  |  |  |  |
| https://www.truthaboutweight.com/discussing-weight-and-health/stick-to-your-weight-management-plan.html |  |  | X |  |  |
| https://www.nhs.uk/live-well/healthy-weight/managing-your-weight/12-tips-to-help-you-lose-weight/ |  |  | X |  |  |
| https://www.creativebloq.com/how-to/delete-an-instagram-account |  |  |  | X |  |
| https://www.theverge.com/22786305/how-to-delete-restore-instagram-account-web-app-temporarily-suspend |  |  |  | X |  |
| https://www.usatoday.com/story/tech/2021/09/20/instagram-delete-deactivate-your-account/8354245002/ |  |  |  | X |  |
| https://how2foru.com/how-to-delete-your-instagram-account\_1189/ |  |  |  | X |  |
| https://www.vpnmentor.com/blog/how-to-delete-your-instagram-account-permanently/ |  |  |  | X |  |
| https://srdtf.org/how-to-delete-instagram-account/ |  |  |  | X |  |
| https://vpnoverview.com/privacy/social-media/how-to-delete-instagram-account/ |  |  |  | X |  |
| https://www.msn.com/en-us/lifestyle/lifestyle-buzz/heres-how-to-deactivate-or-permanently-delete-your-instagram-account/ar-BBNZEmu |  |  |  | X |  |
| https://www.wikihow.com/Delete-an-Instagram-Account |  |  |  | X |  |
| https://www.vpnmentor.com/blog/how-to-delete-your-instagram-account-permanently/ |  |  |  | X |  |
| https://www.adamenfroy.com/how-to-download-youtube-videos |  |  |  |  | X |
| https://www.pcmag.com/how-to/how-to-download-youtube-videos |  |  |  |  | X |
| https://www.digitaltrends.com/computing/how-to-download-youtube-videos-on-mac-for-free/ |  |  |  |  | X |
| https://www.wikihow.com/Download-YouTube-Videos |  |  |  |  | X |
| https://www.tomsguide.com/how-to/how-to-download-youtube-videos-on-iphone-android-mac-and-pc |  |  |  |  | X |
| https://products.aspose.app/html/video-downloader/youtube |  |  |  |  | X |
| https://www.wikihow.com/Download-YouTube-Videos |  |  |  |  | X |
| https://www.kapwing.com/resources/how-to-download-videos-from-youtube-in-3-easy-steps/ |  |  |  |  | X |
| https://youtubedownload.minitool.com/youtube/download-youtube-video.html |  |  |  |  | X |
| https://famoid.com/how-to-download-videos-from-youtube/ |  |  |  |  | X |

*Stemmed incorrectly query and corpus:*

*Topic: pancak*

*Precisio@50= 10 / 50 = 1/5 = 0.2*

*Since |Rel| = 10 and |Res| = 50*

*Average precision = 1/10 \* ( 10 \* 0.2 ) = 0.2*

*Topic: vote*

*Precisio@50= 10 / 50 = 1/5 = 0.2*

*Since |Rel| = 10 and |Res| = 50*

*Average precision = 1/10 \* ( 10 \* 0.2 ) = 0.2*

*Topic: weight*

*Precisio@50= 9 / 50 = 0.18*

*Since |Rel| = 9 and |Res| = 50*

*Average precision =1/9 \* (9\*0.18) = 0.18*

*Topic: instagram*

*Precisio@50= 10 / 50 = 1/5 = 0.2*

*Since |Rel| = 10 and |Res| = 50*

*Average precision = 1/10 \* ( 10 \* 0.2 ) = 0.2*

*Topic: youtub*

*Precisio@50= 10 / 50 = 1/5 = 0.2*

*Since |Rel| = 10 and |Res| = 50*

*Average precision = 1/10 \* ( 10 \* 0.2 ) = 0.2*

*MAP score for stemmed query and corpus incorrect locale =*

*( 0.2 + 0.2 + 0.18 + 0.2 + 0.2 ) / 5 = 0.196*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **URL Result** | **pancak** | | | **vot** | | **weight** | **instagram** | **youtub** |
| https://www.inspiredtaste.net/24593/essential-pancake-recipe/ | X | | |  | |  |  |  |
| https://www.allrecipes.com/recipe/21014/good-old-fashioned-pancakes/ | X | | |  | |  |  |  |
| https://cooking.nytimes.com/recipes/1893-everyday-pancakes | X | | |  | |  |  |  |
| https://www.marthastewart.com/338185/basic-pancakes | X | | |  | |  |  |  |
| https://cafedelites.com/best-fluffy-pancakes/ | X | | |  | |  |  |  |
| https://cooking.nytimes.com/recipes/1893-everyday-pancakes | X | | |  | |  |  |  |
| https://www.allrecipes.com/recipe/162760/fluffy-pancakes/ | X | | |  | |  |  |  |
| https://cooking.nytimes.com/recipes/1018180-perfect-buttermilk-pancakes | X | | |  | |  |  |  |
| https://thestayathomechef.com/pancake-recipe/ | X | | |  | |  |  |  |
| https://www.tasteofhome.com/recipes/fluffy-pancakes/ | X | | |  | |  |  |  |
| https://www.vote.org/am-i-registered-to-vote/ |  | | | X | |  |  |  |
| https://www.usvotefoundation.org/vote/voter-registration-absentee-voting.htm |  | | | X | |  |  |  |
| https://registertovote.ca.gov/ |  | | | X | |  |  |  |
| https://www.usa.gov/register-to-vote |  | | | X | |  |  |  |
| https://vote.gov/ |  | | | X | |  |  |  |
| https://www.usa.gov/register-to-vote |  | | | X | |  |  |  |
| https://www.eac.gov/how-can-i-register-vote |  | | | X | |  |  |  |
| https://www.wikihow.com/Register-to-Vote |  | | | X | |  |  |  |
| https://www.votetexas.gov/register-to-vote/update-voter-registration.html |  | | | X | |  |  |  |
| https://sos.iowa.gov/elections/voterinformation/voterregistration.html |  | | | X | |  |  |  |
| https://www.noom.com/survey/basicHealthGoal |  | | |  | |  |  |  |
| https://www.truthaboutweight.com/discussing-weight-and-health/stick-to-your-weight-management-plan.html |  | | |  | | X |  |  |
| https://www.nutrisystem.com/ |  | | |  | |  |  |  |
| https://asaafriq.com/ |  | | |  | | X |  |  |
| https://www.forbes.com/health/body/how-to-lose-weight-fast/ |  | | |  | | X |  |  |
| https://exipure.com/?hop=daohong |  | | |  | | X |  |  |
| https://www.myalli.com/ |  | | |  | | X |  |  |
| https://www.noom.com/survey/basicHealthGoal |  | | |  | | X |  |  |
| https://www.truthaboutweight.com/discussing-weight-and-health/stick-to-your-weight-management-plan.html |  | | |  | | X |  |  |
| https://www.nhs.uk/live-well/healthy-weight/managing-your-weight/12-tips-to-help-you-lose-weight/ |  | | |  | | X |  |  |
| https://www.creativebloq.com/how-to/delete-an-instagram-account | |  | | |  |  | X |  |
| https://www.theverge.com/22786305/how-to-delete-restore-instagram-account-web-app-temporarily-suspend | |  | | |  |  | X |  |
| https://www.usatoday.com/story/tech/2021/09/20/instagram-delete-deactivate-your-account/8354245002/ | |  | | |  |  | X |  |
| https://how2foru.com/how-to-delete-your-instagram-account\_1189/ | |  | | |  |  | X |  |
| https://www.vpnmentor.com/blog/how-to-delete-your-instagram-account-permanently/ | |  | | |  |  | X |  |
| https://srdtf.org/how-to-delete-instagram-account/ | |  | | |  |  | X |  |
| https://vpnoverview.com/privacy/social-media/how-to-delete-instagram-account/ | |  | | |  |  | X |  |
| https://www.msn.com/en-us/lifestyle/lifestyle-buzz/heres-how-to-deactivate-or-permanently-delete-your-instagram-account/ar-BBNZEmu | |  | | |  |  | X |  |
| https://www.wikihow.com/Delete-an-Instagram-Account | |  | | |  |  | X |  |
| https://www.vpnmentor.com/blog/how-to-delete-your-instagram-account-permanently/ | |  | | |  |  | X |  |
| https://www.adamenfroy.com/how-to-download-youtube-videos |  | |  | | |  |  | X |
| https://www.pcmag.com/how-to/how-to-download-youtube-videos |  | |  | | |  |  | X |
| https://www.digitaltrends.com/computing/how-to-download-youtube-videos-on-mac-for-free/ |  | |  | | |  |  | X |
| https://www.wikihow.com/Download-YouTube-Videos |  | |  | | |  |  | X |
| https://www.tomsguide.com/how-to/how-to-download-youtube-videos-on-iphone-android-mac-and-pc |  | |  | | |  |  | X |
| https://products.aspose.app/html/video-downloader/youtube |  | |  | | |  |  | X |
| https://www.wikihow.com/Download-YouTube-Videos |  | |  | | |  |  | X |
| https://www.kapwing.com/resources/how-to-download-videos-from-youtube-in-3-easy-steps/ |  | |  | | |  |  | X |
| https://youtubedownload.minitool.com/youtube/download-youtube-video.html |  | |  | | |  |  | X |
| https://famoid.com/how-to-download-videos-from-youtube/ |  | |  | | |  |  | X |

*Conclusion:*

The MAP scores were calculated for the query and corpus that was not stemmed and the MAP score calculated was 0.2; the MAP score for a stemmed query and corpus with the correct locale was 0.18 which was a lesser score than the unstemmed MAP score. The MAP score for a stemmed query and corpus with an incorrect locale was observed to be 0.196 which was also lesser than the MAP score of the unstemmed corpus and query.