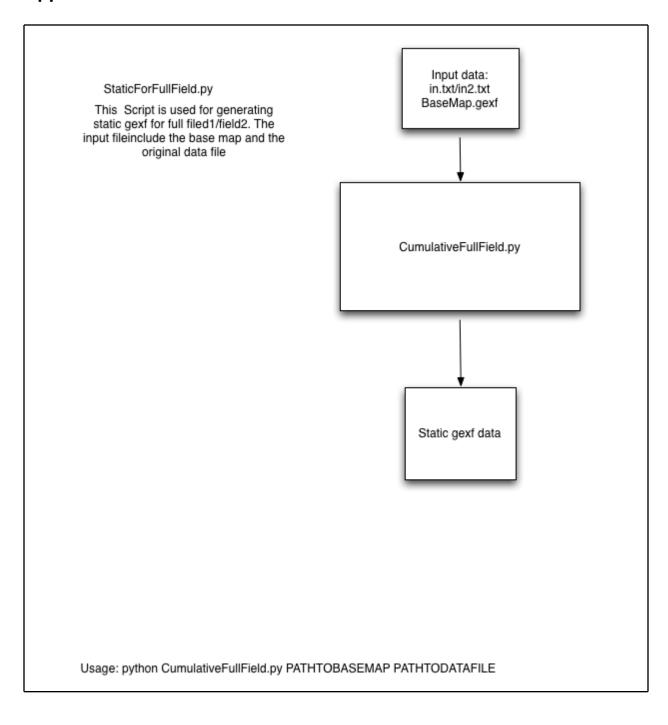
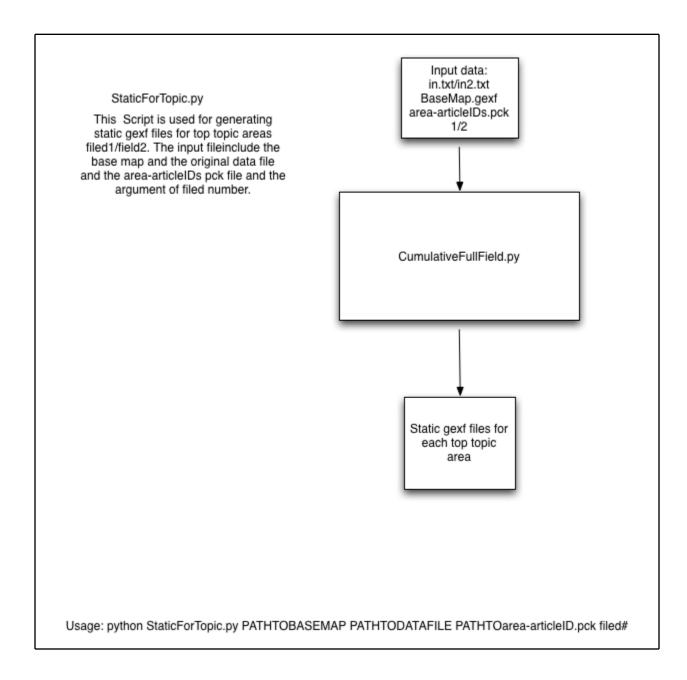
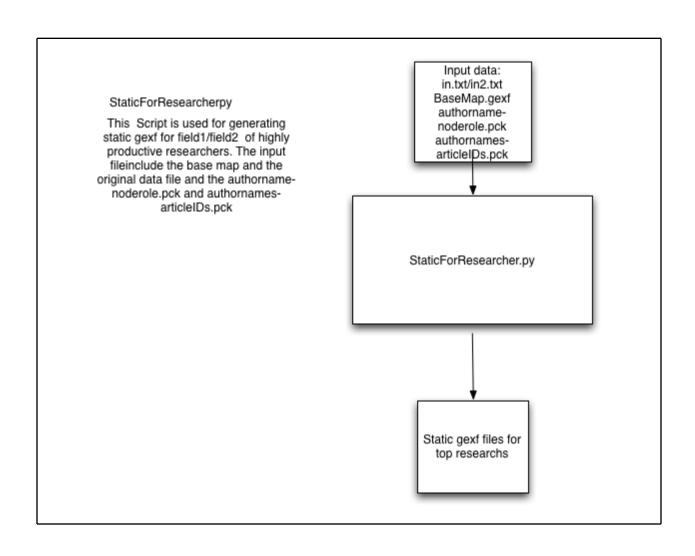
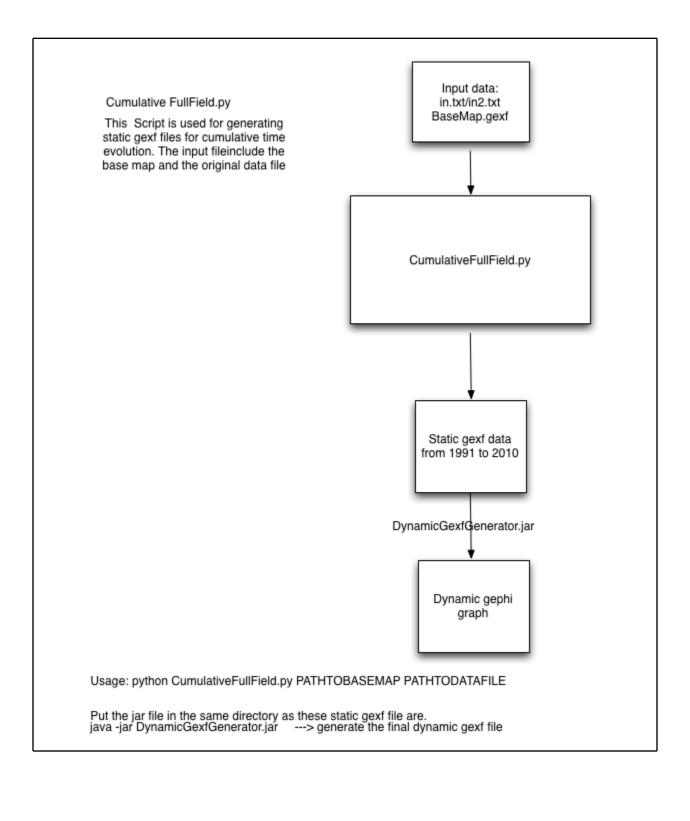
Appendix B



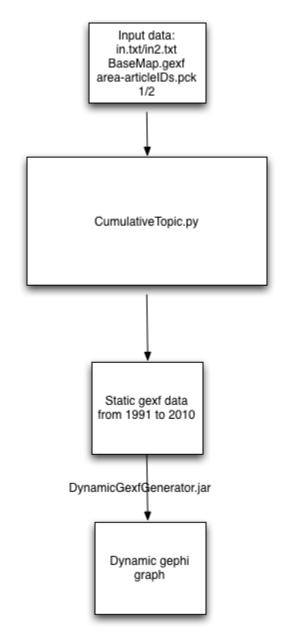






CumulativeTopic.py

This Script is used for generating static gexf files for cumulative time evolution of top topic areas. The input fileinclude the base map and the original data file and the areaarticleIDs pck file and the argument of filed number.

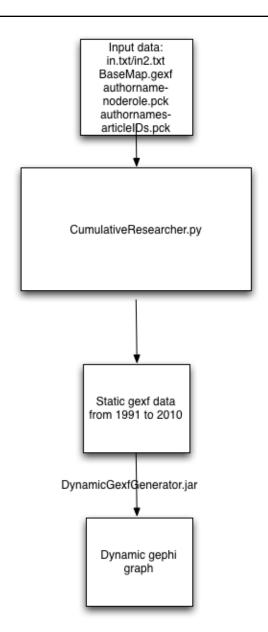


Usage: python CumulativeFullField.py PATHTOBASEMAP PATHTODATAFILE PATHTOarea-articleID.pck filed#

Put the jar file in the same directory as these static gexf file are. java -jar DynamicGexfGenerator.jar top1 ---> generate the final dynamic gexf file for top 1 area java -jar DynamicGexfGenerator.jar top2 ---> generate the final dynamic gexf file for top 2 area

CumulativeResearcher.py

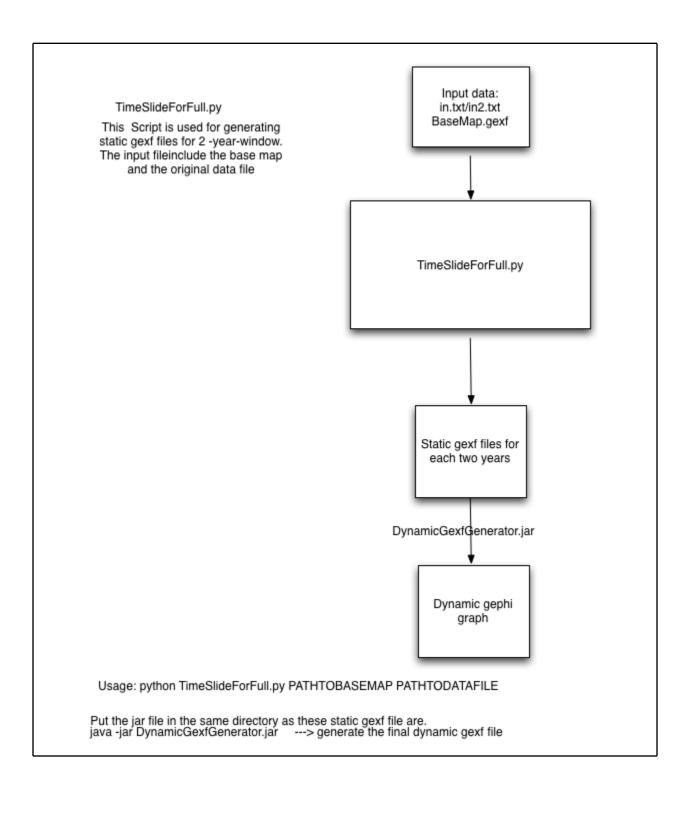
This Script is used for generating static gexf files for cumulative time evolution of highly productive researchers. The input fileinclude the base map and the original data file and the authorname-noderole.pck and authornames-articleIDs.pck



Usage: python CumulativeResearcher.py PATHTOBASEMAP PATHTODATAFILE PATHTOauthorname-noderole.pck PATHTOauthornames-articleIDs.pck

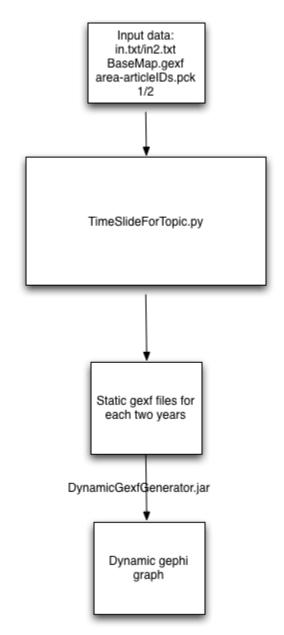
Put the jar file in the same directory as these static gexf file are. java -jar DynamicGexfGenerator.jar author1 ---> generate the final dynamic gexf file for top 1 author java -jar DynamicGexfGenerator.jar author2 ---> generate the final dynamic gexf file for top 2 author

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TimeSlideForTopic.py

This Script is used for generating static gexf files for 2-year-window of top topic areas. The input fileinclude the base map and the original data file and the area-articleIDs pck file and the argument of filed number.

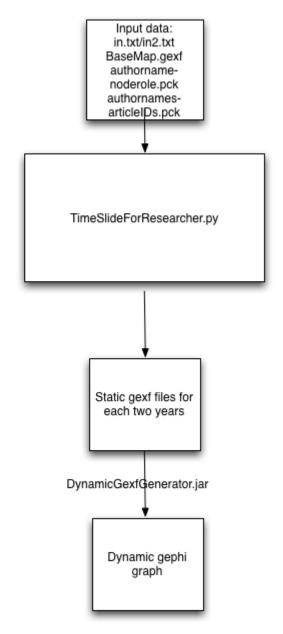


Usage: python TimeSlideForTopic.py PATHTOBASEMAP PATHTODATAFILE PATHTOarea-articleID.pck filed#

Put the jar file in the same directory as these static gexf file are. java -jar DynamicGexfGenerator.jar top1 ---> generate the final dynamic gexf file for top 1 area java -jar DynamicGexfGenerator.jar top2 ---> generate the final dynamic gexf file for top 2 area

TimeSlideForResearcher.py

This Script is used for generating static gexf files for 2 year window of highly productive researchers. The input fileinclude the base map and the original data file and the authornamenoderole.pck and authornamesarticleIDs.pck



Usage: python TimeSlideForResearcher.py PATHTOBASEMAP PATHTODATAFILE PATHTOauthorname-noderole.pck PATHTOauthornames-articleIDs.pck

Put the jar file in the same directory as these static gexf file are. java -jar DynamicGexfGenerator.jar author1 ---> generate the final dynamic gexf file for top 1 author java -jar DynamicGexfGenerator.jar author2 ---> generate the final dynamic gexf file for top 2 author

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