

CS571 HW3 Report

The Result (Generated by the code):

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	ROUGE-1				ROUGE-2				ROUGE-L		
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System	P(%)	R(%)	F(%)		P(%)	R(%)	F(%)		P(%)	R(%)	F(%)
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Centroid	0.42316	0.3232	0.3655		0.09649	0.07406	0.0836		0.36804	0.28115	0.31793
ICSISumm	0.37174	0.39239	0.38161		0.0954	0.10124	0.09819		0.32669	0.345	0.33544
LexRank	0.41018	0.32409	0.36155		0.08838	0.06983	0.07789		0.36143	0.28552	0.31854
Submodular	0.39983	0.38752	0.39346		0.09571	0.09299	0.0943		0.34636	0.33581	0.3409
DPP	0.41195	0.39296	0.40203		0.10117	0.09661	0.09879		0.32052	0.30586	0.31286

Experimental setup:

At first, I thought that pyrouge is like all other python package that could use `pip install pyrouge` and then I could run the code. But I after I install it, there are tons of errors and upon further research, I find out that I need to install the original rouge-1.5.5 based on perl. So I download rouge-1.5.5 first and then setup the home path for pyrouge and my pyrouge works normally.

Language:

Python, Perl

Runtime:

Centroid: 6.7929627895355225

ICSISumm: 5.8181471824646

LexRank: 6.303010940551758

Submodular: 5.856902122497559

DPP: 5.489208936691284