

**Your Name: Chih-Wei Chang**

**Your Andrew ID: cchang3**

## **Homework 2**

### **Collaboration and Originality**

Your report must include answers to the following questions:

1. Did you receive help of any kind from anyone in developing your software for this assignment (Yes or No)? It is not necessary to describe discussions with the instructor or TAs.

If you answered Yes, provide the name(s) of anyone who provided help, and describe the type of help that you received.

2. Did you give help of any kind to anyone in developing their software for this assignment (Yes or No)?

If you answered Yes, provide the name(s) of anyone that you helped, and describe the type of help that you provided.

3. Are you the author of every line of source code submitted for this assignment (Yes or No)? It is not necessary to mention software provided by the instructor.

If you answered No:

- a. identify the software that you did not write,
- b. explain where it came from, and
- c. explain why you used it.

4. Are you the author of every word of your report (Yes or No)?

If you answered No:

- a. identify the text that you did not write,
- b. explain where it came from, and
- c. explain why you used it.

[illegible]

<b>MAP</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
------------	--------	--------	--------	--------	--------	--------	--------	--------

## 2.2 b

	<b>b</b>							
	0.75	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7
<b>P@10</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>P@20</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>P@30</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>MAP</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

## 2.3 Parameters

*Explain and justify your choice of parameters.*

## 2.4 Discussion

*Analyze the experimental results.*

## 3 Experiment 3: Indri Parameter Adjustment

### 3.1 $\mu$

	<b><math>\mu</math></b>							
	2500	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7
<b>P@10</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>P@20</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>P@30</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>MAP</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

### 3.2 $\lambda$

	<b><math>\lambda</math></b>							
	0.4	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7
<b>P@10</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>P@20</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>P@30</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>MAP</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

## 3.3 Parameters

*Explain and justify your choice of parameters.*

## 3.4 Discussion

*Analyze the experimental results.*

## 4 Experiment 4: Different representations

### 4.1 Example Query

*Provide your structured query for query “sherwood regional library”.*

### 4.2 Results

	<b>Indri BOW (body)</b>	<b>0.00 url 0.00 keywords 0.00 title 0.00 body 0.00 inlink</b>	<b>0.00 url 0.00 keywords 0.00 title 0.00 body 0.00 inlink</b>	<b>0.00 url 0.00 keywords 0.00 title 0.00 body 0.00 inlink</b>	<b>0.00 url 0.00 keywords 0.00 title 0.00 body 0.00 inlink</b>	<b>0.00 url 0.00 keywords 0.00 title 0.00 body 0.00 inlink</b>
<b>P@10</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>P@20</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>P@30</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>MAP</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

### 4.3 Weights

*Explain and justify your choice of weights.*

### 4.4 Discussion

*Analyze the experimental results.*

## 5 Experiment 5: Sequential dependency models

### 5.1 Example Query

*Provide your structured query for query “sherwood regional library”.*

### 5.2 Results

	<b>Indri BOW (body)</b>	<b>0.00 AND 0.00 NEAR 0.00 WINDOW</b>	<b>0.00 AND 0.00 NEAR 0.00 WINDOW</b>	<b>0.00 AND 0.00 NEAR 0.00 WINDOW</b>	<b>0.00 AND 0.00 NEAR 0.00 WINDOW</b>	<b>0.00 AND 0.00 NEAR 0.00 WINDOW</b>
<b>P@10</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>P@20</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>P@30</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>MAP</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

### 5.3 Weights

*Explain and justify your choice of weights.*

## 5.4 Discussion

*Analyze the experimental results.*