

# ACCESSIBILITY OF REHABILITATION WEB PAGES USING JAWS AND BOBBY

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## WHY REHABILITATION RELATED WEBSITES?

- ❖ INTENDED FOR PEOPLE WITH DISABILITIES
- ❖ OFFER GATEWAYS TO
- ❖ REHABILITATION SERVICES
- ❖ SOURCES OF ASSISTIVE TECHNOLOGIES
- ❖ VOCATIONAL SERVICES
- ❖ EMPLOYMENT
- ❖ EDUCATION
- ❖ ADVOCACY

## HOW TO MEASURE ACCESSIBILITY?

- ❖ OBJECTIVE CONSIDERATIONS EG.  
CHECKPOINTS DEVELOPED BY WAI
- ❖ SUBJECTIVE CONSIDERATIONS EG.  
NEED/ADEQUACY OF TEXT  
DESCRIPTOR

# BOBBY TEST

- ❖ AUTOMATED ACCESSIBILITY EVALUATOR
- ❖ PRIORITY 1, 2, 3 ERRORS

## A PRACTICAL TEST OF USABILITY: USE A PERSON WITH A DISABILITY USING ASSISTIVE TECHNOLOGY TO EVALUATE WEB PAGES

### NEEDS OF SCREEN READER USERS

- ❖ WYSiWYG TRANSLATES TO WYHiWYG
- ❖ SCREEN CONTENTS CONVERTED TO SPEECH
- ❖ NAVIGATION IS KEYBOARD DRIVEN
- ❖ GRAPHICS NEED TEXT ALTERNATIVES
- ❖ LAYOUT - FRAMES, TABLES, CHARTS ETC
- ❖ FORMS: LABELS FOR FIELDS, ACCESS TO BUTTONS, CHECKBOXES ETC

## RESEARCH QUESTION:

- ❖ ARE REHABILITATION RELATED WEB PAGES ACCESSIBLE TO VISUALLY IMPAIRED INDIVIDUALS USING THE SCREEN READING PROGRAM, JAWS FOR WINDOWS?

## 30 REHAB RELATED SITES IDENTIFIED BY WEB SEARCH

- ❖ KEY WORDS: +rehabilitation & +disabled & +America & products & services & education employment legal rights assistive technology
- ❖ META SEARCH ENGINE [www.cyber411.com](http://www.cyber411.com)
- ❖ WEB SEARCH IDENTIFIED A SET OF 227 SITES
  
- STRONG INTRA-RATER RELIABILITY :
- 5 SITES TESTED

## JAWS and BOBBY Accessibility of WEB Pages

Domain	Web Pages Reviewed	Proportion in Sample	JAWS-Accessible Pages	Accessibility Percentage	Bobby Priority-1	Accessibility Percentage
COM	7	23.33	5	71.42	5	71.42
EDU	8	26.66	7	87.50	5	62.50
GOV	2	6.66	2	100.00	2	100.00
NET	2	6.66	1	50.00	0	0.00
ORG	8	26.66	4	50.00	1	12.50
US	3	10.00	3	100.00	2	66.67
TOTAL	30	100.00	22	73.33	15	50.00

## Performance of Sampled Web Pages Using Four Criteria With JAWS

Domain	Web Pages Reviewed	Frames	Text Area	Links	Forms	JAWS-Accessible Pages
COM	7	6	7	5	7	5
EDU	8	8	8	8	7	7
GOV	2	2	2	2	2	2
NET	2	2	2	1	2	1
ORG	8	7	4	6	7	4
US	3	3	3	3	3	3
TOTAL	30	28	26	25	28	22

## WEB PAGE RATING

- JFW ACCESSIBLE 73%
- BOBBY ACCESSIBLE 50%
- GOV AND US 100%
- COM AND EDU BETTER THAN THOSE  
IN NET AND ORG