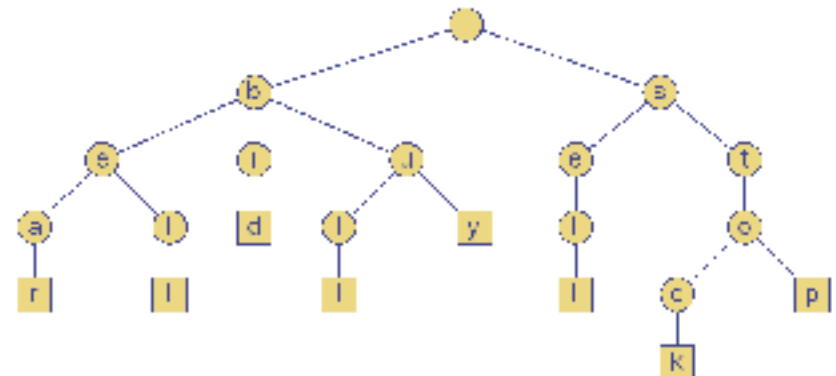


Why?!?

Why Algorithms? Why Data Structures?

Ali Erkan
Ithaca College

Corresponding Trie

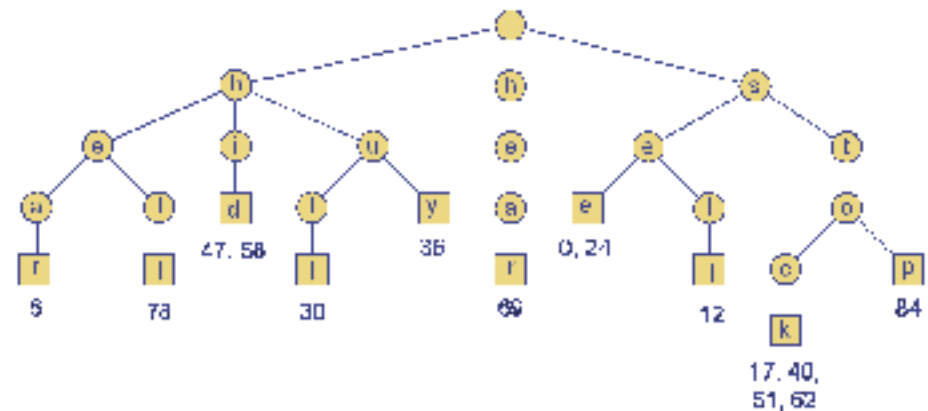


s	e	e	a	b	e	a	r	?	s	e	l	l	s	t	o	c	k	!					
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
s	c	c	a	b	u	l	l	?	b	u	y	s	t	o	c	k	!						
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	
b	i	d	s	t	o	c	k	!	b	i	d	s	t	o	c	k	!						
47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
h	e	a	r	t	h	e	b	e	l	l	?	s	t	o	p	!							
71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94

Words To Search

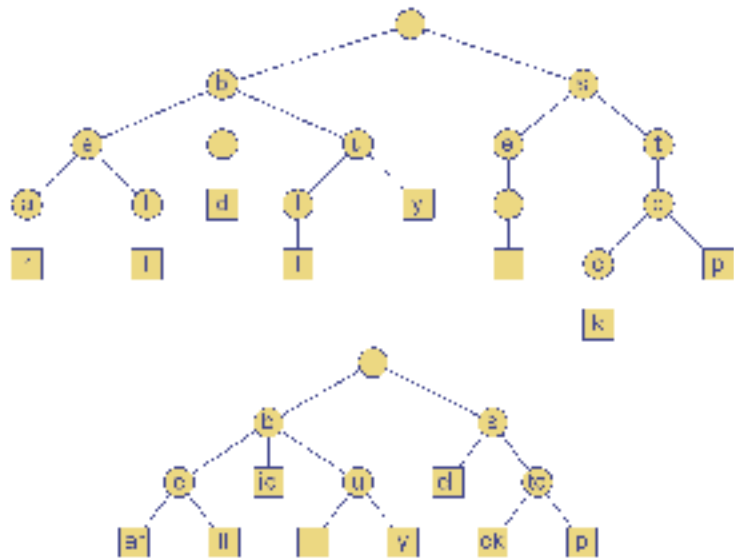
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s	c	c	a	b	u	l	l	?	b	u	y	s	t	o	c	k	!						
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	
b	i	d	s	t	o	c	k	!	b	i	d	s	t	o	c	k	!						
47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
h	e	a	r	t	h	e	b	e	l	l	?	s	t	o	p	!							
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Trie With Word Indices

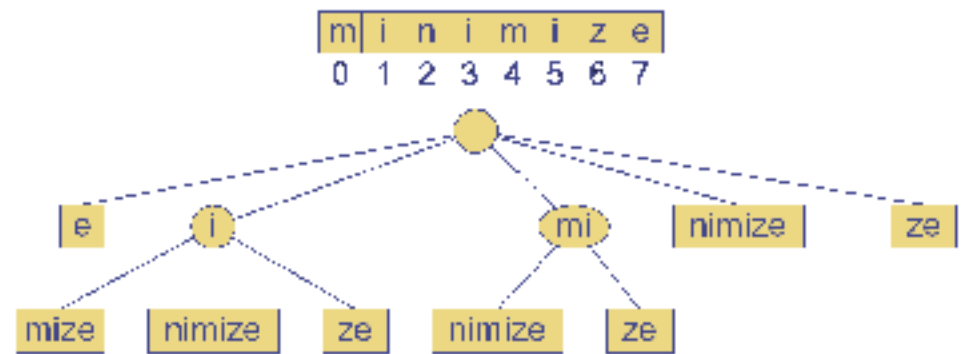


s	c	c	a	b	e	a	r	?	s	e	l	l	s	t	o	c	k	!					
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
s	e	e	a	b	u	l	l	?	b	u	y	s	t	o	c	k	!						
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	
b	i	d	s	t	o	c	k	!	b	i	d	s	t	o	c	k	!						
47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
h	e	a	r	t	h	e	b	e	l	l	?	s	t	o	p	!							
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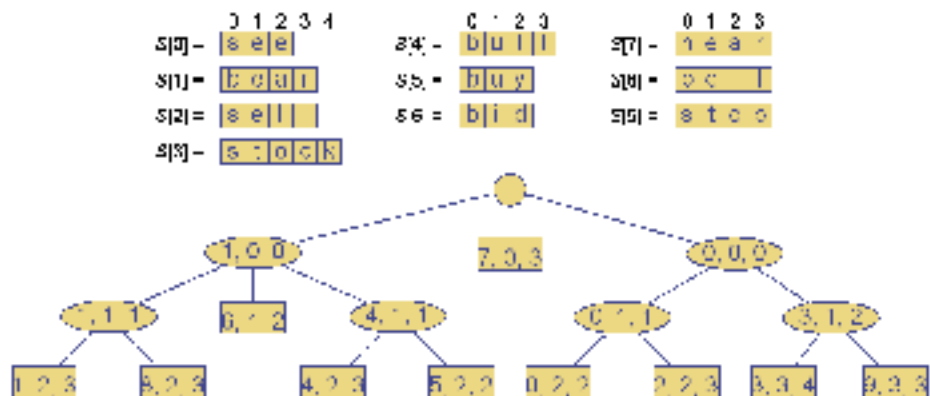
Compressed Trie



Compressed Suffix Trie



Compact Trie



Compact Suffix Trie

