E	hensents at Toring Machine
Tra	versuble Structures
0	INPUT TAPE - Linear, List structure W/ L, R, Noop OPS
0	- LINEAR, LIST STRUCTURE W/ L, R, NOOD OF
(3)	INTERMEDIATE STURAGE TAPE
4	FINITE STATE MACHINE - DIRECTED GRAPH
(5)	Symbol on tape
	blank 2

TURING MACHINIE A	5 A TRANS	Form	
Traversably	Tayvenso	BLE	
Structure	STRUCTU		
Krams Sarm		TRAWSFORM	
LIWEAR	Liwean		
TOMVERSABLE			
STRUCTURE		ansversur	
(IMPUT THOE)	(OUTPUT TAPE)		
	1	-1 14	
TRAWSFORM		trans com	
V		1.61444 3 20.00	
TRAVERSABLE		~	
STRUCTURE -		< +4000	
CINTERMEDIAME)		transt	
	·	in s	
		mac	
Implications			
· A transform can be writ	ten to convert	between	
any traversable stru	cture and a s	imple	
linear traversable s	structure		
		NAT-	

Elements of	turing muchines
STRUCTURE ->	latin struere = "to build"
Structure	
- Cow	ranges (put things in order)
¥	
4	elements disposition
	Felation
3 tente Chamad	to place"
Ochurcos ()	
	dis =7 "apart", "gway"
, ,	Join Join
Sulpi) :	Connection
Cor.	association
	unua (3'combine
V	Ly "unite
0-1	
- Fundamental [Dis con bus bu
- Circular Serta	structure of minimum size
- unique in only 1	edge out of each state
- entirely traver	sable in one state transition
- transitions in s	ystem are
- No change	
- Change	

<u></u>	Elements of tur	ing muchues
	Structure cont	
	Structure 2001	
	A	A, B are "apart"
<u>.</u>		1) 13
	R	A, Bare "JOINED" "Combined"
		Union "
	A	06, 111
	A, B are partially A, B are partial	the Same
70° b., 160 b.h.m.	A, B are purtial	y different
		Same
	A	<u> </u>
		60
	Scoine Same	
	v V	
	>00 -> 01,	01
	2 Sterenz	1
-		different
		·

. 🥆				
	Elements o	f turing	mach	ings
			Sym	De l
	Symbol			
	element		beleve"	Lhrew"
	/ra	presenting	11514n	
		e/ement	Leb	raonl
			again	Present
			present	again
				-
			· · · · · · · · · · · · · · · · · · ·	

 Elements of turing machine
- Traversable structures Input Internal State output
 - Transferms World = linear, input, output Inver <> basis structure; input, output Gymbol spaces (& nodes)

Set	Elements of turing machines of steps, each step: Transfermer Symbol movement in structures
	$Q \leftrightarrow 1 \leftrightarrow \text{Emply} \qquad Q \leftrightarrow 1 \leftrightarrow \text{Emply}$
	Translate occation in Structure bused on trigger of -no trigger - input or output symbol
	Corrent state is pregram counter State table is pregram local variables stored on tape local variables like inhermediate transform

	Symbols	traversable
- representation of real		+ structure
- concept of structure +	vecus, Long	
	7	
7 7 10 1	\[\strace{\chi}{\chi}	
		7,100
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	octuse	
gram orca		
plue occol		
QZ.lem)		
@ 7.7 cm		
1/a		
n n	700	
La transform		· · · · · · · · · · · · · · · · · · ·
	output	
1/0	structure	
1/0		
1,0		a re-
- @Zen		
blue = 0100		

