

E	xamp	oles:	Trai	ารไ	atio	n an	d Fe	rtility
		the				not		
f	$t(f \mid e)$	ϕ	$n(\phi \mid e$		f	$t(f \mid e)$	φ	$n(\phi \mid e)$
le	0.497	1	0.74	6	ne	0.497	2	0.735
la	0.207	0	0.25	4	pas	0.442	0	0.154
les	0.155				non	0.029	1	0.107
ľ	0.086				rien	0.011		
ce	0.018				L			
cette	0.011							
				f_	rmers			
				<i>.</i>	in meno			
			f	t(f)	<i>e</i>)	φ	$n(\phi \mid e)$	
		agri	culteurs	0.4	42	2	0.731	
		Ĭ	les	0.4	18	1	0.228	
		cult	ivateurs	0.0	46	0	0.039	
		pro	ducteurs	0.0	21			

 Exar	nple	: Idio	oms						
nodding									
f	$t(f \mid e)$	$\overline{\phi}$	$n(\phi \mid e)$						
signe	0.164	4	0.342						
la	0.123	3	0.293						
tête	0.097	2	0.167						
oui	0.086	1	0.163						
fait	0.073	0	0.023						
que	0.073								
hoche	0.054								
hocher	0.048		[
faire	0.030								
me	0.024								
approuve	0.019								
qui	0.019								
ûn	0.012		(
faites	0.011								

E	xamp	le: N	1orp	holog	У
		shoi	ıld		
	f	$t(f \mid e)$	φ	$n(\phi \mid e)$	
	devrait	0.330	1	0.649	
	devraient	0.123	0	0.336	
	devrions	0.109	2	0.014	
	faudrait	0.073			
	faut	0.058			
	doit	0.058		1	
	aurait	0.041			
	doivent	0.024			
	devons	0.017			
	devrais	0.013			
					1

	Some F	Res	ults		
ch and Ney ()3]				
Model	Training scheme	0.5K	8K	128K	1.47M
Dice		50.9	43.4	39.6	38.9
Dice+C		46.3	37.6	35.0	34.0
Model 1	1^{5}	40.6	33.6	28.6	25.9
Model 2	$1^{5}2^{5}$	46.7	29.3	22.0	19.5
HMM	$1^{5}H^{5}$	26.3	23.3	15.0	10.8
Model 3	$1^{5}2^{5}3^{3}$	43.6	27.5	20.5	18.0
	$1^5 H^5 3^3$	27.5	22.5	16.6	13.2
Model 4	$1^{5}2^{5}3^{3}4^{3}$	41.7	25.1	17.3	14.1
	$1^5 H^5 3^3 4^3$	26.1	20.2	13.1	9.4
	$1^5 H^5 4^3$	26.3	21.8	13.3	9.3
Model 5	$1^5H^54^35^3$	26.5	21.5	13.7	9.6
	$1^5 H^5 3^3 4^3 5^3$	26.5	20.4	13.4	9.4
Model 6	$1^5 H^5 4^3 6^3$	26.0	21.6	12.8	8.8
model 0	$1^5 H^5 3^3 4^3 6^3$	25.9	20.3	12.5	87













		St	tac	k Dec	00	din	g			
Sta • E • L	<mark>ck de</mark> Beam Jsuall <u>y</u> Dne st	ecodir search y A* es ack pe	ng: timat r can	es for com didate ser	nple	tion	cost engt	t h		
Oth • [i <mark>er m</mark> Dynam issum	ethod nic proo ptions	S: gramı abou	ming deco t the set o	der: f all	s po owa	ssibl ble p	le if bern	we r nuta	na tior
Oth • [a sent length	Dynam Dynam Issum	ethod nic prog ptions	S: grami abou	ming deco t the set o	der: f all	s po owa	ssibl ble p	le if Dern	we r nuta	na tior
Oth • [a sent length	Dynam Dynam assum	ethod nic prog ptions	S: grami abou	ranslation errors (semantic and/or syntactic)	der f all	s pos owa	ssibl ble p	le if Dern	we r nuta ^{HSE}	
Oth • [a sent length 6	decoder type	ethod nic prog ptions	S: grami abou search errors	translation translation errors (semantic and/or syntactic) 57	ders f all	s pos owa PME 57	ssib ble p	le if Dern FSE	we r nuta ^{HSE}	na tior
oth [a] sent length 6 6	decoder type	ethod nic proc ptions (sec/sent) 47.50 0.79	S: grami abou search errors	t the set o	ders f all	S po owa	ssib ble p DSE	le if Dern FSE	we r nuta ^{HSE}	na tior
oth • [a sent length 6 6 6 6	decoder type IP stack greedy	ethod nic proc ptions	S: grami abou search errors 0 5 18	ranslation errors (semantic and/or syntactic) 58 60	der: f all NE 44 43 38	S DO OWA	ssib ble p DSE	le if Dern FSE	we r nuta HSE	na tior
oth • [e sent length 6 6 6 8	decoder type IP stack greedy IP	time (sec/sent) 47.50 0.07 499.00	S: grami abou	translation errors (semantic and/or syntactic) 57 58 60 76	der: f all NE 44 43 38 27	S po owa	DSE	FSE	we r nuta HSE	na tior ce 0 4 10 0
Oth • [= [= [= [= [= [= [= [=	decoder type IP stack greedy IP stack	ethod nic proc ptions (sec/sent) 47.50 0.07 499.00 5.67	S: grami abou search errors 0 5 18 0 20	translation errors (semantic and/or syntactic) 57 58 60 76 75	der: f all NE 44 43 38 27 24	S po owa PME 57 53 45 74 57	DSE	FSE	We r nuta HSE	na tior ce 0 4 10 0 15



















		Ph	rase	e-B	as	sed	D	ecodin	g	
这	7人	中包括	来自	法国	和	俄罗斯	的	宇航	员	
the	7 people	including	by some	I	and	the russian	the	the astronauts		
it	7 people inc	luded	by france		and the	the russian	ene	international astronautical	of rapporteur	1,
this	7 out	including the	from	the french	and the	russian	the fift	h	or rapporteur :	
these	7 among	including from		the french	and	of the russian	of	space	members	1.
that	7 persons including from		the	of france	and to	russian	of the	aerospace	members	•
enac	7 include		from the	of france at	nd	russian	or the	astronauts	includero .	the
	7 numbers include		from france	of france a	and mee	an	of astr	onaute who		
	7 numbers include		those from fram	100	and russ	ian	or asta	onauts who		
	7 deportees included		come from	france	and ru	eela	in	astronautical	nerconnel	
	7 philtrum including those		e from	france ar	and ru	ruccio	9 8090	astronauticai	member	,
	including those in		contatives from	france and	the	russia	a space	actronaut	includer	-
		including representatives from		france and	d rueeia	1 0551a	by cos	nonaute		-
		include came from		fronch	ond nu	colo	by cos	components		-
		include repres	nench	and ruce	551d		cosmonauts			
		include	came nom nan	from oh on d	franch and russia's cosmonauts.		cosmonauts .		<u> </u>	
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					01	10336 3				
		D	ecode	r desi	an is		rtan	t: [Koehn et	al. 03]	























