	VB	TO	NN	PPSS
<S>	0.019	0.0043	0.041	0.067
VB	0.0038	0.035	0.047	0.007
TO	0.83	0	0.00047	0
NN	0.004	0.016	0.087	0.0045
PPSS	0.23	0.00779	0.0012	0.00014

A: Tag Transitions (Brown Tag Set)

B: Observation Likelihoods

	I	want	to	race
VB	0	0.0093	0	0.0012
TO	0	0	0.99	0
NN	0	0.000054	0	0.00057
PPSS	0.37	0	0	0

<S>	I PPSS	want VB	to TO	race VB
PPSS	P(PPSS|<S>) = 0.067 P(I|PPSS) = 0.37 .067*0.37 = **0.025**	max(0.025, 0, 0, 0) = 0.025 P(PPSS|PPSS) = 0.00014 P(want|PPSS) = 0 0.025*0.00014*0 = 0	max(0, 0.000053, 0, 1.6e-9) = 0.000053 P(PPSS|VB) = 0.007 P(to|PPSS) = 0 0.000053*0.007*0 = 0	max(0, 0, 0.000019, 0) = 0.000019 P(PPSS|TO) = 0 P(race|PPSS) = 0 0.000019*0*0 = 0
VB	P(VB|<S>) = 0.019 p(I|VB) = 0 .019*0 = 0	max(0.025, 0, 0, 0) = 0.025 P(VB|PPSS) = 0.23 P(want|VB) = 0.0093 0.025*0.23*0.0093 = **0.000053**	max(0, 0.000053, 0, 1.6e-9) = 0.000053 P(VB|VB) = 0.0038 P(to|VB) = 0 0.000053*0.0038*0 = 0	max(0, 0, 0.000019, 0) = 0.000019 P(VB|TO) = 0.83 P(race|VB) = 0.0012 0.000019*0.083*0.0012 = **0.00000002**
TO	P(TO|<S>) = 0.0043 P(I|TO) = 0 0.0043*0 = 0	max(0.025, 0, 0, 0) = 0.025 P(TO|PPSS) = 0.00779 P(want|TO) = 0 0.025*0.00779*0 = 0	max(0, 0.000053, 0, 1.6e-9) = 0.000053 P(TO|VB) = 0.35 P(to|TO) = 0.99 0.000053*0.35*0.99 = **0.000019**	max(0, 0, 0.000019, 0) = 0.000019 P(TO|TO) = 0 P(race|TO) = 0 0.000019*0*0 = 0
NN	P(NN|<S>) = 0.041 P(I|NN) = 0 0.041*0 = 0	max(0.025, 0, 0, 0) = 0.025 P(NN|PPSS) = 0.0012 P(want|NN) = 0.000054 0.025*0.0012*0.000054 = 1.6e-9	max(0, 0.000053, 0, 1.6e-9) = 0.000053 P(NN|VB) = 0.047 P(to|NN) = 0 0.000053*0.047*0 = 0	max(0, 0, 0.000019, 0) = 0.000019 P(NN|TO) = 0.00047 P(race|NN) = 0.00057 0.000019*0.00047*0.00057 = 5.1e-12