Supplemental Material

This supplemental material provides examples of the generated summaries and the latent discourse trees induced by our model. Figure 1 and Figure 2 show samples of *negative* reviews and relatively *long* reviews, respectively. We present them with comparisons of the reference and generated summaries by the supervised neural sequence-to-sequence model with attention mechanism (Seq-Seq-att).

Figure 1

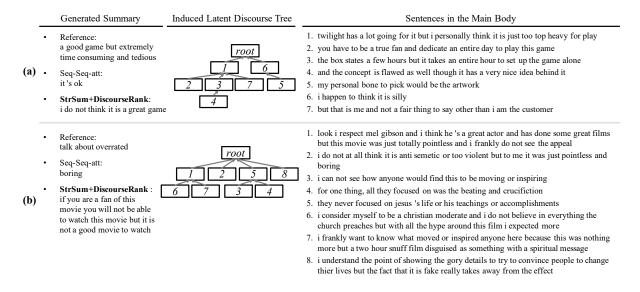| Generated Summary	Induced Latent Discourse Tree	Sentences in the Main Body
(a) • Reference: a good game but extremely time consuming and tedious • Seq-Seq-att: it's ok • **StrSum+DiscourseRank**: i do not think it is a great game	root — 1, 6; 1 — 2, 3, 7, 5; 3 — 4	1. twilight has a lot going for it but i personally think it is just too top heavy for play 2. you have to be a true fan and dedicate an entire day to play this game 3. the box states a few hours but it takes an entire hour to set up the game alone 4. and the concept is flawed as well though it has a very nice idea behind it 5. my personal bone to pick would be the artwork 6. i happen to think it is silly 7. but that is me and not a fair thing to say other than i am the customer
(b) • Reference: talk about overrated • Seq-Seq-att: boring • **StrSum+DiscourseRank**: if you are a fan of this movie you will not be able to watch this movie but it is not a good movie to watch	root — 1, 2, 5, 8; 6, 7, 3, 4	1. look i respect mel gibson and i think he 's a great actor and has done some great films but this movie was just totally pointless and i frankly do not see the appeal 2. i do not at all think it is anti semetic or too violent but to me it was just pointless and boring 3. i can not see how anyone would find this to be moving or inspiring 4. for one thing, all they focused on was the beating and crucifiction 5. they never focused on jesus 's life or his teachings or accomplishments 6. i consider myself to be a christian moderate and i do not believe in everything the church preaches but with all the hype around this film i expected more 7. i frankly want to know what moved or inspired anyone here because this was nothing more than a two hour snuff film disguised as something with a spiritual message 8. i understand the point of showing the gory details to try to convince people to change thier lives but the fact that it is fake really takes away from the effect

Figure 1: Examples of generated summaries and induced latent discourse trees for *negative* reviews. (a) shows a board game review. The induced tree shows that the 1st and 6th sentences present additional information about the generated summary. While the 1st to 4th indicate the *heaviness* of the game, the 5th and 6th criticize the *artwork*. The 2nd, 3rd, and 4th present the additional information about the parent. (b) presents a movie review. The 1st and 2nd sentences describe the whole evaluation, while 6th and 7th *strengthen* the opinion. The 3rd to 5th mention the boring points in *detail*. Although our model catches the negativeness, the summary is redundant probably because each sentence in the body is relatively long.

Figure 2

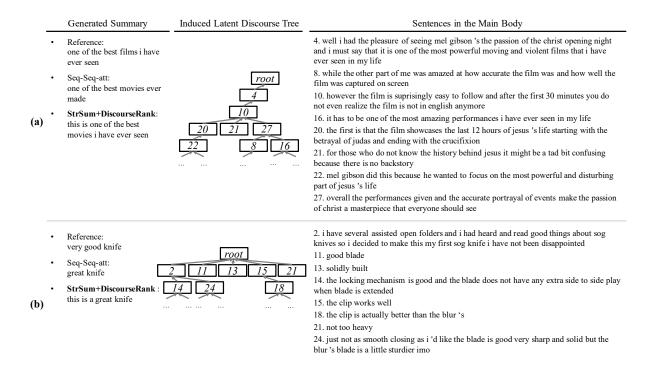| Generated Summary	Induced Latent Discourse Tree	Sentences in the Main Body
(a) • Reference: one of the best films i have ever seen • Seq-Seq-att: one of the best movies ever made • **StrSum+DiscourseRank**: this is one of the best movies i have ever seen	root — 4 — 10 — 20, 21, 27; 22; 8, 16; …	4. well i had the pleasure of seeing mel gibson 's the passion of the christ opening night and i must say that it is one of the most powerful moving and violent films that i have ever seen in my life 8. while the other part of me was amazed at how accurate the film was and how well the film was captured on screen 10. however the film is suprisingly easy to follow and after the first 30 minutes you do not even realize the film is not in english anymore 16. it has to be one of the most amazing performances i have ever seen in my life 20. the first is that the film showcases the last 12 hours of jesus 's life starting with the betrayal of judas and ending with the crucifixion 21. for those who do not know the history behind jesus it might be a tad bit confusing because there is no backstory 22. mel gibson did this because he wanted to focus on the most powerful and disturbing part of jesus 's life 27. overall the performances given and the accurate portrayal of events make the passion of christ a masterpiece that everyone should see
(b) • Reference: very good knife • Seq-Seq-att: great knife • **StrSum+DiscourseRank**: this is a great knife	root — 2, 11, 13, 15, 21; 14, 24, 18; …	2. i have several assisted open folders and i had heard and read good things about sog knives so i decided to make this my first sog knife i have not been disappointed 11. good blade 13. solidly built 14. the locking mechanism is good and the blade does not have any extra side to side play when blade is extended 15. the clip works well 18. the clip is actually better than the blur 's 21. not too heavy 24. just not as smooth closing as i 'd like the blade is good very sharp and solid but the blur 's blade is a little sturdier imo

Figure 2: Examples of generated summaries and induced latent discourse trees for *long* reviews. (a) shows a movie review. The 4th sentence mentions the whole positiveness. The 10th describes that the contents are *easy to follow*, while the 20th to 22nd show the *detail* of the contents. The 27th mentions the *performance* and *accurate portrayal*, and the 8th and 16th *elaborate* on the latter and the former, respectively. (b) presents a pocket knife review. The 11th, 13th, 15th, and 21st sentences concisely describe the goodness in each *aspect*. The 14th, 24th, and 28th *elaborate* on the parents.