

Senior Thesis Notes

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(Abstract) As one augments their understanding of Haskell, he or she will come across the concept of Arrows. In this paper, we try to give a more simple definition of Arrows through the heavy use of working examples and their explanations. We do this by first giving a good way of imagining the concept of Arrows through the concept of Monads. Given this knowledge, we will demonstrate their relationship through a Kleisli Arrow and then give simple examples to show Arrows' efficiency. We will finish this paper with a more sophisticated example that shows how useful arrows can be in a production environment.

(Understanding Arrows) Before we start with any example of arrows, we first need to explain what an Arrow is. The best way to imagine this concept is through the