ATF Help

1 Help with Topics

```
module Help (help) where
type HelpTopic = (String, [String])
help_topics :: [HelpTopic]
help_topics =
    [ ("compile",
        [ "Usage:"
               $> atf compile T.atf_trans x1.atf_src ... xN.arf_src"
        , "Description:"
               This command transpiles each of xi.atf_src file into a"
               xi.atf_tgt file, for which both the translated content and file"
               type (atf_tgt) are specified by T.atf_trans."
        , "Details:"
               T.arg_lang is written in a language-specification format that"
               is immediately compatible with atf. T, the compiled translator"
               specification, which is then used to parse and transpile each"
               xi.atf_src into a corresponding xi.atf_tgt file." ] )
    , ("help",
        [ "Usage:"
               $> atf help <topic>"
        , "Description:"
               This command prints a helpful illustration description of the"
               usage syntax and execution details about the given topic. For"
               example, I would recommend running 'atf help compile'." ] )
    , ("all",
        [ "ATF Commands:"
               help <topic>"
               compile <trans-spec> <source-1> ... <source-N>" ] )
   ]
print_help_topic :: HelpTopic -> IO ()
print_help_topic (topic, content)
   = foldl (>>) (putStr "")
    $ map putStrLn
    $ ("help for \"" ++ topic ++ "\":\n") : content
extract_help_topic :: String -> Maybe HelpTopic
extract_help_topic topic =
   let helper :: [HelpTopic] -> Maybe HelpTopic
       helper [] = Nothing
       helper (h:hs) = if topic == fst h
            then Just h
            else helper hs
    in helper help_topics
help :: String -> IO ()
help topic = case extract_help_topic topic of
```

Nothing -> help "all"

Just ht -> print_help_topic ht