```
1 {-# LANGUAGE OverloadedStrings #-}
 2 {-
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17 Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
18 - }
19 import Text.Pandoc
20 import Text.Pandoc.MIME
21 import Control.DeepSeq (force)
22 import Control.Monad.Except (throwError)
23 import qualified Text.Pandoc.UTF8 as UTF8
24 import qualified Data. ByteString as B
25 import qualified Data. Text as T
26 import Test.Tasty.Bench
27 -- import Gauge
28 import qualified Data. ByteString. Lazy as BL
29 import Data.Maybe (mapMaybe)
30 import Data.List (sortOn)
31 import Text.Pandoc.Format (FlavoredFormat(..))
32
33 readerBench :: Pandoc
34
               -> T.Text
               -> Maybe Benchmark
36 readerBench _ name
    name `elem` ["bibtex", "biblatex", "csljson"] = Nothing
38 readerBench doc name = either (const Nothing) Just $
39
    runPure $ do
40
      (rdr, rexts) <- getReader $ FlavoredFormat name mempty</pre>
       (wtr, wexts) <- getWriter $ FlavoredFormat name mempty</pre>
41
42
      tmpl <- Just <$> compileDefaultTemplate name
43
      case (rdr, wtr) of
         (TextReader r, TextWriter w) -> do
44
           inp <- w def{ writerWrapText = WrapAuto</pre>
45
46
                       , writerExtensions = wexts
                       , writerTemplate = tmpl } doc
47
48
          return $ bench (T.unpack name) $
49
             nf (either (error . show) id . runPure . r def) inp
50
         (ByteStringReader r, ByteStringWriter w) -> do
51
           inp <- w def{ writerWrapText = WrapAuto</pre>
                       , writerExtensions = wexts
52
53
                       , writerTemplate = tmpl } doc
54
          return $ bench (T.unpack name) $
            nf (either (error . show) id .
55
                   runPure . r def{readerExtensions = rexts}) inp
56
        _ -> throwError $ PandocSomeError $ "text/bytestring format mismatch: "
57
58
                              <> name
60 getImages :: IO [(FilePath, MimeType, BL.ByteString)]
61 getImages = do
    11 <- B.readFile "test/lalune.jpg"</pre>
62
    mv <- B.readFile "test/movie.jpg"</pre>
63
    return [("lalune.jpg", "image/jpg", BL.fromStrict 11)
            ,("movie.jpg", "image/jpg", BL.fromStrict mv)]
65
66
67 writerBench :: [(FilePath, MimeType, BL.ByteString)]
```

```
68
                -> Pandoc
69
               -> T.Text
70
               -> Maybe Benchmark
71 writerBench _ _ name
    name `elem` ["bibtex", "biblatex", "csljson"] = Nothing
73 writerBench imgs doc name = either (const Nothing) Just $
74
     runPure $ do
       (wtr, wexts) <- getWriter $ FlavoredFormat name mempty</pre>
75
76
       case wtr of
         TextWriter writerFun ->
77
78
           return $ bench (T.unpack name)
                   $ nf (\d -> either (error . show) id $
79
80
                           runPure $ do
                             mapM_ (\((fp,mt,bs) -> insertMedia fp (Just mt) bs) imgs
81
                             writerFun def{ writerExtensions = wexts} d)
82
83
                        doc
         ByteStringWriter writerFun ->
           return $ bench (T.unpack name)
85
                   $ nf (\d -> either (error . show) id $
86
87
                           runPure $ do
                             mapM_ (\((fp,mt,bs)) -> insertMedia fp (Just mt) bs) imgs
88
                             writerFun def{ writerExtensions = wexts} d)
89
90
                        doc
91
92 main :: IO ()
93 main = do
94
     inp <- UTF8.toText <$> B.readFile "test/testsuite.txt"
95
     let opts = def
96
     let doc = either (error . show) force $ runPure $ readMarkdown opts inp
     defaultMain
97
98
       [ env getImages $ \imgs ->
         bgroup "writers" $ mapMaybe (writerBench imgs doc . fst)
99
100
                             (sortOn fst
                               writers :: [(T.Text, Writer PandocPure)])
101
102
       , bgroup "readers" $ mapMaybe (readerBench doc . fst)
103
                             (sortOn fst
104
                               readers :: [(T.Text, Reader PandocPure)])
105
       ]
```