ABC Parser Project: Design Description

We represent an ABC parser for music files as a series of well-structured interfaces.

```
* e2a8db4 (HEAD, origin/master, origin/HEAD, master) Add methods to Measure
* ee590b3 I broke everything so sorry
* 3059a70 More Listener work, maybe add Measure object?
* 68ded49 Added a method to scales which shifts a pitch up/down depending on
the tone change given.
* c81a983 Fully working Scales method.
* 751818f Update Scales
* 203c05f Add documentation, fix a few Listener errors. We need to reallllly do
more documentation
* 71c3021 Design revision
* 00de6b9 some more renaiming
* 1d68ba5 Docs renamed
* 9fdc434 Fixed the title and intro, added the grammar file at the end
* a636548 Parser added to the design
* 32038c1 Change Syllable to Lyric, add more methods to Voice
*   b729e3c Merge branch 'master' of ssh://athena.dialup.mit.edu/afs/athena.
mit.edu/course/6/6.005/git/fa13/projects/abcplayer/aivanov-olgash-schmois
|\
| * fa7cd83 Making the contract a nice LaTeX at 4AM......
| * 10c8dda Minor change in Chord.java
| * 8fdc9e8 Design description added. PROOFREAD  needed
| * 40e8858 ADT revised. Some classes moved to utils
| * ecf98be Music interface created, others revised
* | 4148f8f Add Voices to Listener
|/
* 557e0c3 More work on Listener, only have Note and Syllable left to do
*   e04b554 Merge branch 'master' of ssh://athena.dialup.mit.edu/afs/athena.
mit.edu/course/6/6.005/git/fa13/projects/abcplayer/aivanov-olgash-schmois
|\
| * f1c7f57 multiplyLength added to Pitch
* | d810fa0 Fraction now supports equals(), multiply(int), multiply(Fraction),
and a constructor given a String representation of a full fraction
|/
*   82a0cb2 Merge branch 'master' of ssh://athena.dialup.mit.edu/afs/athena.
mit.edu/course/6/6.005/git/fa13/projects/abcplayer/aivanov-olgash-schmois
|\
| *   115172f Merge branch 'master' of ssh://athena.dialup.mit.edu/afs/athena.
mit.edu/course/6/6.005/git/fa13/projects/abcplayer/aivanov-olgash-schmois
| |\
| * | 471f311 Fraction file
```

```
| * |   fec5741 Merge branch 'master' of ssh://athena.dialup.mit.edu/afs/athena.
mit.edu/course/6/6.005/git/fa13/projects/abcplayer/aivanov-olgash-
schmois
| |\ \
| * | | 6034c07 new Fraction class available. Pitch is a bit different now but
still needs work transforming lengths to Fraction. Scales is still
in the works
* | | |   a712710 Merge branch 'master' of ssh://athena.dialup.mit.edu/afs/athena
.mit.edu/course/6/6.005/git/fa13/projects/abcplayer/aivanov-olgash-schmois
|\ \ \ \
| | |_|/
| |/| |
| * | | 3aecd81 Add Fraction, modify Signature, start Listener
| * | | 4e2e6d2 Start Listener
| | |/
| |/|
* | | d1b02f3 MusicPlayer class added
|/ /
* | d10f9a6 Add Signature, Syllable. Clean up Lexer, add outline to Listener
|/
*   89b6d4e Merge branch 'master' of ssh://athena.dialup.mit.edu/afs/athena.
mit.edu/course/6/6.005/git/fa13/projects/abcplayer/aivanov-olgash-schmois
|\
| * 10c4053 Add more lexer tests and documentation
* | 81d05ad Datatype modifications
|/
* 8beea02 Note interface implemented
*   6a74a54 Merge branch 'master' of ssh://athena.dialup.mit.edu/afs/athena.
mit.edu/course/6/6.005/git/fa13/projects/abcplayer/aivanov-olgash-schmois
|\
| * 930363a warm-up tests no didit added
* | 8e9f093 Add repeated measure class and more comments on tests
|/
* 22873ec small ADT changes
* 380ef1f g4 worksgit status All sample_abc files run
* 125a22c Fix g4, now it worksgit status! Super hackey, and lyrics is now just one
token. However, notes are not just one massive line token
* 5e8cd39 new test
* 284c547 fixed piece2 and piece3. worked more on the lexer and parser
* 707733a Warmup tests fixed
* dedb91c More tweaks. Now parses everything except G2 for some reason ugh
*   e991cff Merge branch 'master' of ssh://athena.dialup.mit.edu/afs/athena.
mit.edu/course/6/6.005/git/fa13/projects/abcplayer/aivanov-olgash-schmois
|\
| * 50be82f LexerTests updated, and now all pass! Still can't read a file.
More g4 stuff
```

```
| * a3ff9a6 Re-did g4, now there are a shitton of Lexer rules
* | 6f3d289 warm-up tests added
|/
* 99f1eb3 piece 1 corrected once more
* 484d162 piece 1 corrected
*   6fcda67 Add lots of ADT and g4. Ugly merge fix ):
|\
| * 3a32576 More work on parser, still fails ):
| * 93e56b7 Made a Listener, nothing inside
| * 5a2e028 Got the g4 to work
| * cbca2b0 i wonder if didit supports branching....
* | 0ea387d Work more on the grammar. Impossible. Also added Lexer tests
* | 635d51f Warm-up exercises revised. Triplets fixed in first example, some
errors in
the second example.
* | b31c495 Worked on g4, doesn't work perfectly yet. Also added Listener
and stuff to Main
|/
* 6c20289 Add warm up tests (so far nothing works), start ADT files.
Music is the interface
* 6b9fadb FIX1: piece1.abc
* 5ff043d Warm-up exercises
* 9a91896 Add contract file
* dfdee13 Starting code.
```