

WHERE WORDS FAIL MUSIC SPEAKS



AGILE
TESTING DAYS

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Music is
Everywhere



Music is
Important



Music is
Complex



Music is
Social



Music is
Learning



Music is
Individual

Our Goal

Take you on a journey,
through music and with music,
to illustrate some things
relevant to agile and
testing



I find your
lack of
singing
disturbing



Rose Red

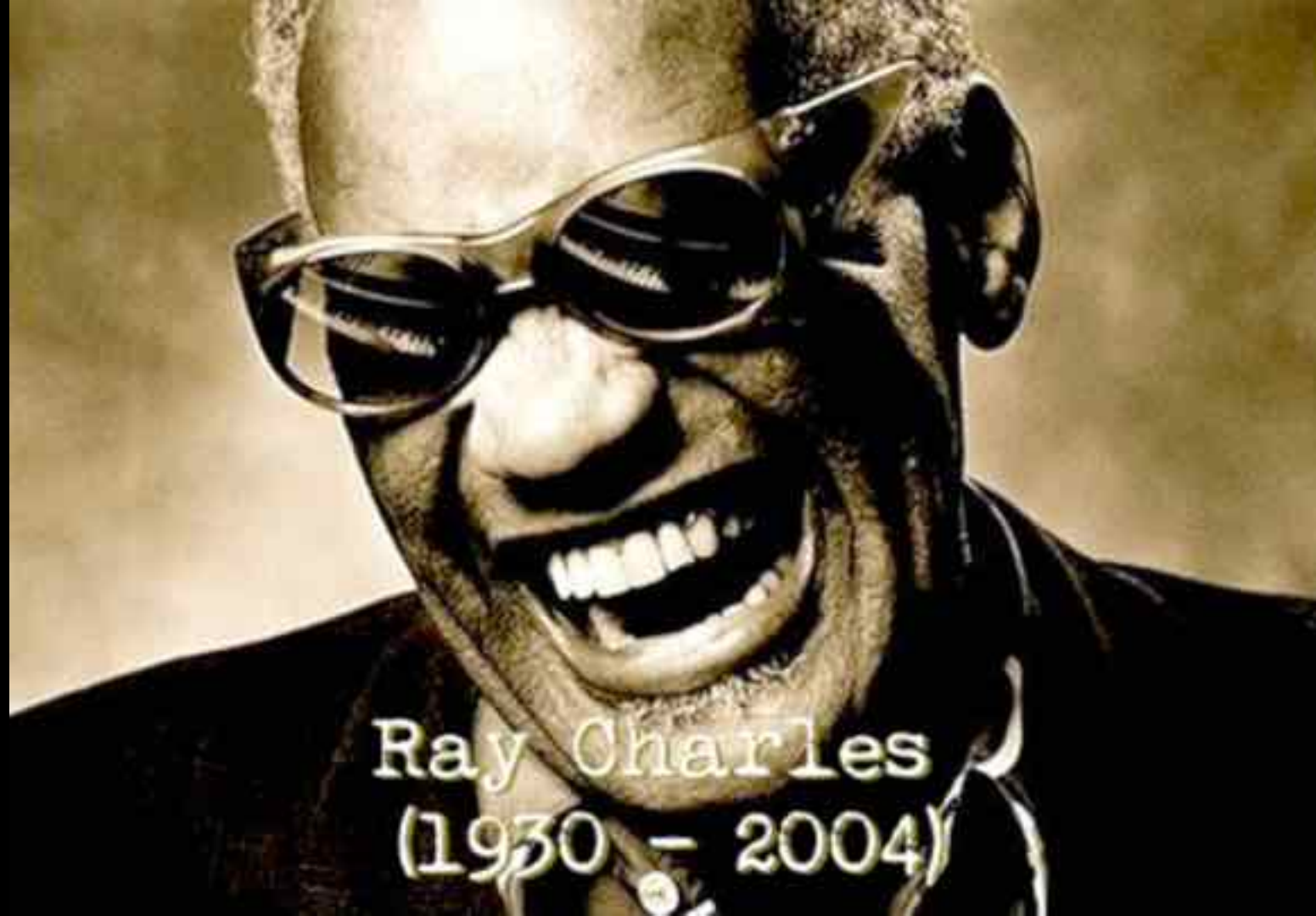
Rose rose rose red

Will I ever see thee wed

I will marry at thy will

At thy will sire





Ray Charles
(1930 - 2004)

Rose rose rose red
Will I ever see thee wed
I will marry at thy will
At thy will sire



Music and learning



♪ Instant feedback

♪ Reduce complexity to practice

♪ Learn fundamentals (own them)

♪ Muscle memory

♪ You don't practice from front to back

Irish Washerwoman

Violin

G D

Violoncello (Vln.)

12

The image displays a musical score for two instruments: Violin and Violoncello (Vln.). The Violin part is written on a single staff in G major (one sharp) and 6/8 time. It features a continuous eighth-note melody. Above the staff, the letters 'G' and 'D' are placed over specific measures, likely indicating fingerings or breath marks. The Violoncello part is written on a single staff, also in G major. It begins with a measure rest marked '12', followed by a series of chords and single notes. The notation includes various musical symbols such as treble clefs, key signatures, time signatures, and note values.

Music & communication

Let's do a simple experiment...

Close your eyes & listen

What do you hear?

What do you think of?



Music & agile teams

♪ Sometimes you're the triangle player



Music & agile teams

♪ Music teams and their contexts...

♪ Solo

♪ Trios/Quartets

♪ Bands

♪ Orchestra

♪ Session



Session heuristic



Heuristics

♪ STAR

- ♪ Structure
- ♪ Tune
- ♪ Accompaniment
- ♪ Rhythm

Compare

♪ SFDIPOT

- ♪ Structure
- ♪ Function
- ♪ Data
- ♪ Interface
- ♪ Platform
- ♪ Operation
- ♪ Time

Context of notes

♪ E-Note



A musical staff in 4/4 time showing a single half note on the E line (the second line from the bottom) of a treble clef. The staff ends with a double bar line.

♪ E Major Scale



♪ G Major Scale



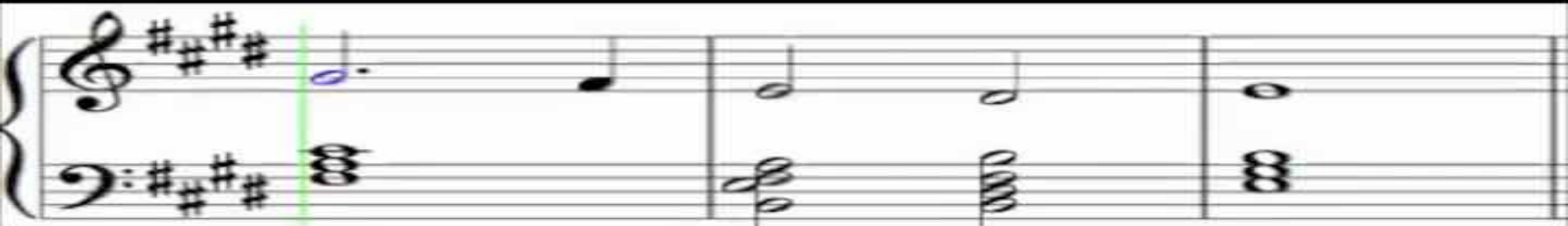
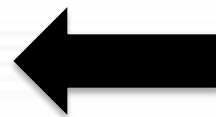
Cadences

- ♫ Authentic cadence
- ♫ Deceptive cadence



Cadences

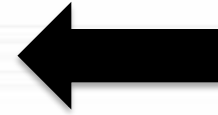
- Authentic cadence
- Deceptive cadence



Cadences

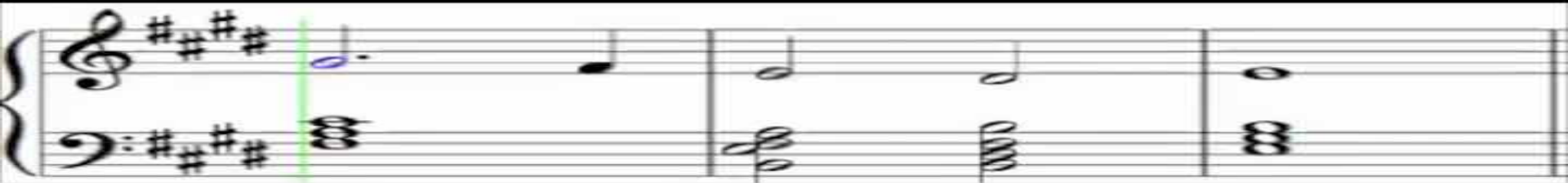
Authentic cadence

Deceptive cadence



A musical score for a deceptive cadence in D major. The score is written for piano (treble and bass clefs) and consists of four measures. The first measure is marked with a green vertical line and a blue dot, and is labeled 'ii' below. The second measure is labeled 'Vsus4' below. The third measure is labeled 'V' below. The fourth measure is labeled 'vi' below. The notes in the first measure are D4 (treble) and F#3 (bass). The notes in the second measure are G#4 (treble) and A3 (bass). The notes in the third measure are A4 (treble) and G#3 (bass). The notes in the fourth measure are B4 (treble) and A3 (bass). The key signature has two sharps (F# and C#).

End of sprint...



Music & testing

♪ Exploratory testing & music

♪ Scripting versus improvisation

♪ Communication over documentation

♪ Standards & music

♪ Experiments: outcome is unsure

♪ Non-deterministic & non-reproducible

♪ Models

♪ Heuristics and patterns

Heuristics



4 Chords
(2011)

I V vi IV

...are fallible



Music & testing



♪ Same piece of music needs to adapt to situation...



♪ If you have the skills you can do it (and it looks so easy)



Now listen to this!



Lessons



♪ Learn your team's tune

♪ Finish your sprints on a good cadence



♪ Recognize your role + context



♪ Practice + Patterns + Adapting = Star!

1 2

Voice

Rose rose rose red

Violin

Trombone

3 4

Voice

I will mar - ry at thy will at thy wi - ll sire

Violin

Trombone

**QUESTIONS,
YOU HAVE,
HMM?**



Thank you!



AGILE
TESTING DAYS

References

- ♪ How to Be a Professional Triangle Player: <http://goo.gl/7y9bcI>
- ♪ Testing and Music: Parallels in Practice, Skills, and Learning
<http://www.developsense.com/presentations/2008-06-TestingAndMusic.pdf>
- ♪ Cadences: <http://goo.gl/DtEoEt>
- ♪ Heuristics (4 chords): <http://www.youtube.com/watch?v=EOSs38wVnD4>
- ♪ List of 4 chord songs: <http://goo.gl/mGCpOV>
- ♪ How to write a song: <http://goo.gl/CoaBzC>
- ♪ Madonna:
 - ♪ <http://www.youtube.com/watch?v=qgIIW7nxBgc>
 - ♪ http://www.youtube.com/watch?v=_KQiPumzHNA
 - ♪ <http://www.youtube.com/watch?v=JbDbBal53ig>
- ♪ Ray Charles: <http://www.youtube.com/watch?v=CyVuYAHizb8>
- ♪ Star Wars Music by John Williams
- ♪ James Bond Theme by Monty Norman
- ♪ All about that Bass, Meghan Trainor
- ♪ Other music traditional, arr. Alex Schladebeck





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