

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

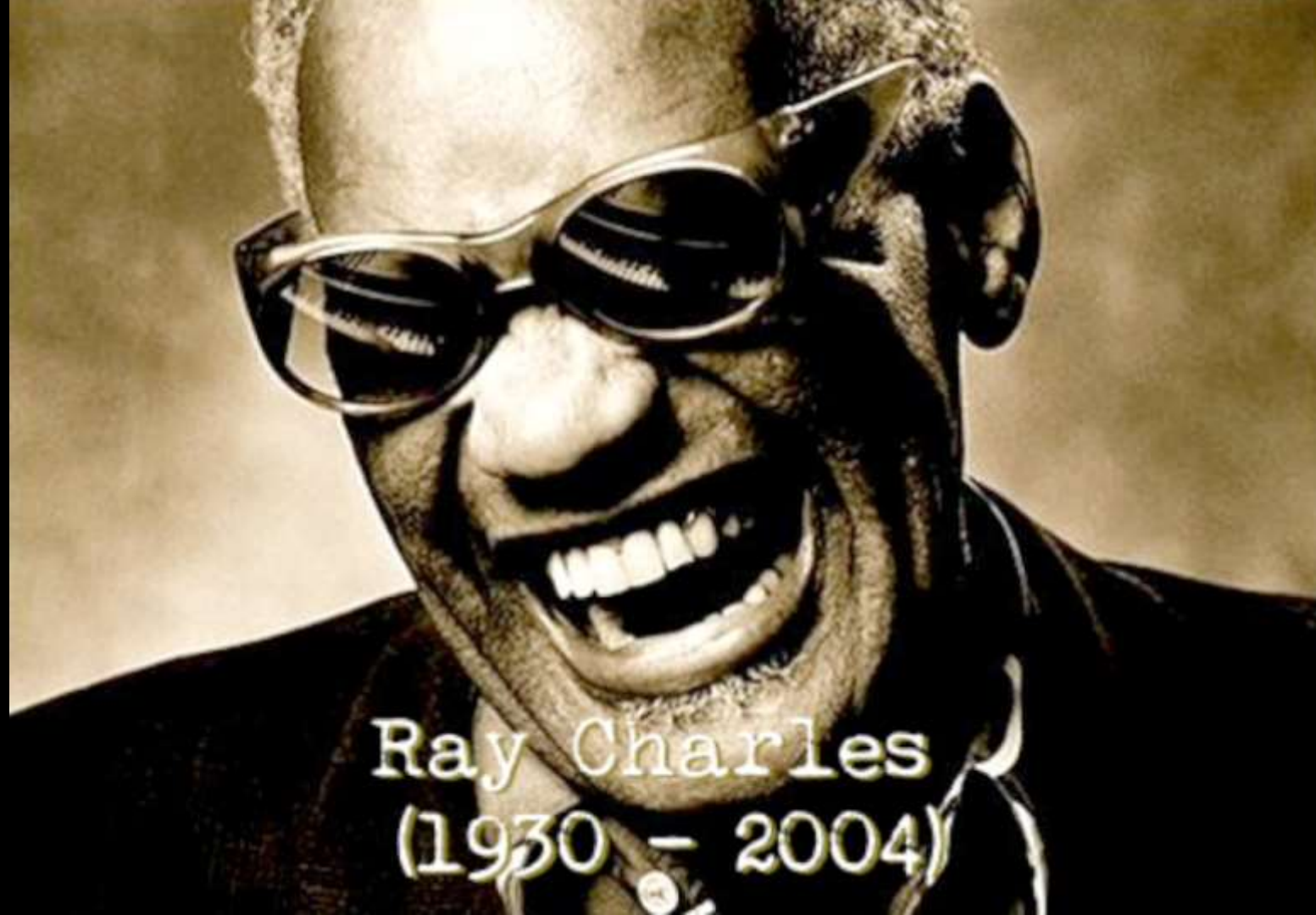
Rose rose rose red

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

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 

The image shows a single musical staff with a treble clef and a 4/4 time signature. A single quarter note on the second line of the staff is circled in purple. The staff ends with a double bar line.

♪ E Major Scale




The image shows a musical staff with a treble clef and a key signature of three sharps (F#, C#, G#). The scale is written as a sequence of quarter notes: E4, F#4, G#4, A4, B4, C#5, D5, E5. The first note (E4) and the final chord (E5) are circled in purple. The staff ends with a double bar line.

♪ G Major Scale




The image shows a musical staff with a treble clef and a key signature of one sharp (F#). The scale is written as a sequence of quarter notes: G4, A4, B4, C5, D5, E5, F#5, G5. The fifth note (E5) and the final chord (G5) are circled in purple. The staff ends with a double bar line.

Cadences



Authentic cadence



Deceptive cadence



Authentic cadence



Deceptive cadence



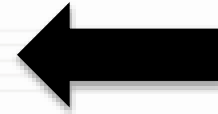
Authentic cadence



Deceptive cadence

Cadences

Authentic cadence



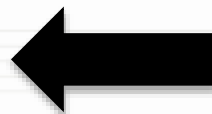
Deceptive cadence



Cadences

Authentic cadence

Deceptive cadence



ii Vsus4 V vi

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!



MADONNA
LA ISLA BONITA

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 will I ev - er see thee wed

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!



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=qqIIW7nxBgc>
 - ♪ 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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