

# Intro to JAVA 8

**JUG Barcelona**

sponsored by



Ignasi Marimon-Clos (@ignasi35)



**thanks!**

# about me

n. /iŋ'nazi/

1) problem solver, Garbage Collector, mostly scala, learning java 8, agile for tech teams

2) kayaker

3) under construction

4) wears glasses

about you



# Index

XXIst Century DateTime

Default Methods

Functional Interfaces

Lambda

Streams

Lots of Conc-related stuff

Lots of Security-related stuff

# Index

XXIst Century DateTime

Default Methods

Functional Interfaces

Lambda

Streams

~~Lots of Conc-related stuff~~

~~Lots of Security-related stuff~~





0

# GET READY



TAP



1



# XXIst Century DateTime



# XXIst Century DateTime

- Date is DEAD (my opinion)
- Calendar is DEAD (my opinion)
- DEAD is 57005 (that's a fact)

# XXIst Century DateTime

- Stephen Colebourne et al.
- JodaTime
- JSR 310 — 7 years FTW

# XXIst Century DateTime

- Clock
  - LocalDate
  - LocalDateTime
  - Duration vs Period
  - ZonedDateTime
- 
- Enum.Month
  - Enum.DayOfWeek



# XXIst Century DateTime

## Enum.Month

- Not just JAN, FEB, MAR
- Full arithmetic
  - plus(long months)
  - firstDayOfYear(boolean leapYear)
  - length(boolean leapYear)
  - ...

# XXIst Century DateTime

- Clock
  - allows testing
  - Instant/now
  - replace `System.currentTimeMillis()`
- LocalDate
- LocalDateTime
- Duration vs Period
- ZonedDateTime

# XXIst Century DateTime

- Clock
- LocalDate
  - a date
  - no TimeZone
  - birth date, end of war, man on moon,...
- LocalDateTime
- Duration vs Period
- ZonedDateTime

# XXIst Century DateTime

- Clock
- LocalDate
- LocalDateTime
  - an hour of the day
  - noon
  - 9-to-5
- Duration vs Period
- ZonedDateTime



# XXIst Century DateTime

- Clock
- LocalDate
- LocalDateTime
- Duration vs Period
  - Duration:  $365 * 24 * 60 * 60 * 1000$
  - Period: 1 year (not exactly 365 days)
  - Duration (Time) vs Period (Date)
- ZonedDateTime

# XXIst Century DateTime

- Clock
- LocalDate
- LocalDateTime
- Duration vs Period
- ZonedDateTime (not an Instant!!)
  - Immutable
  - nanosecond detail
  - Normal, Gap, Overlap

















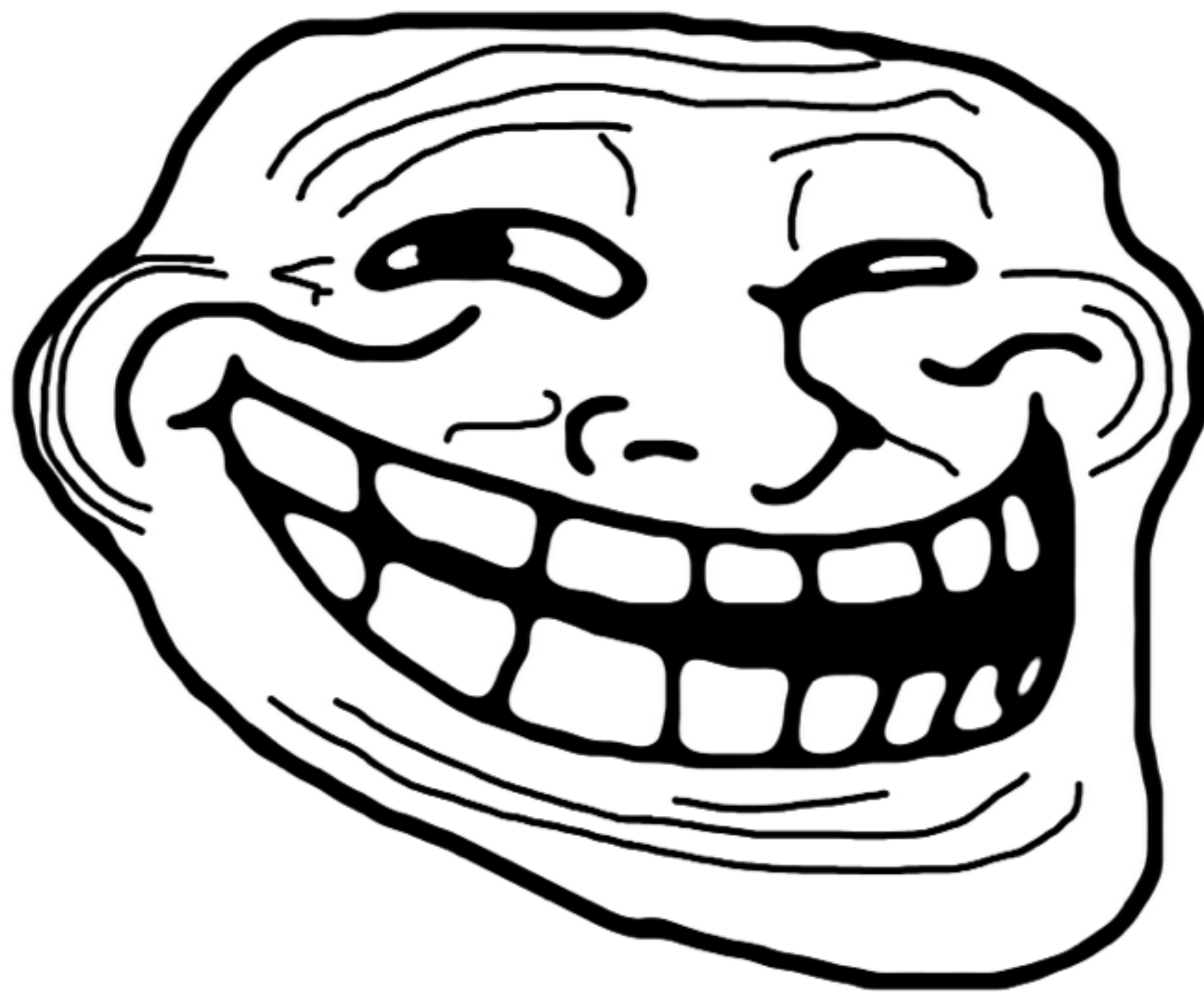


# conclusions

- Java 8 is the poor brother of scala
- Democracy sucks

# want more?

- Intro to scala: <http://scalacamp.pl/intro/#/start>
- Twitter's Scala School: [http://twitter.github.io/scala\\_school/](http://twitter.github.io/scala_school/)
- 99 problems in scala: <http://aperiodic.net/phil/scala/s-99/>
- Scala Puzzles: <http://scalapuzzlers.com/>
- "Programming in Scala" (1st ed free online: <http://www.artima.com/pins1ed/>)
- Scala Developers Barcelona Meetup



**thanks!**

# References

JAVA 8 javadocs: <http://download.java.net/jdk8/docs/api/>

# References

Ready to go:

- [http://www.orchard.co.uk/Screen%20Shot%202014-02-11%20at%2010\\_09\\_05.png](http://www.orchard.co.uk/Screen%20Shot%202014-02-11%20at%2010_09_05.png)

Highlights:

- [http://www.readingrainbow.com/wp-content/uploads/highlights\\_logo.jpg?w=300](http://www.readingrainbow.com/wp-content/uploads/highlights_logo.jpg?w=300)

Happiness:

- <http://wallpapersfor.me/wp-content/uploads/2012/03/love-happiness-girl-heart-valentines-1920x1200.jpg>
- <http://i2.dailypress.com/incoming/article1759389.ece/ALTERNATES/s2197/Barcelona-v-AC-Milan-1759389.jpg>
- [http://www.hdwallpapersin.com/files/submissions/Freedom\\_HD\\_Wallpaper\\_735820196.jpg](http://www.hdwallpapersin.com/files/submissions/Freedom_HD_Wallpaper_735820196.jpg)
- <http://damour42140.c4.cmdwebsites.com/blog/wp-content/uploads/2013/09/Genuine-Montreal-wedding-photos-55.jpg>
- <http://21stcenturytimetraveller.files.wordpress.com/2013/03/dwxmas2011-3.jpg>

Trollface:

- [http://static4.wikia.nocookie.net/\\_\\_cb20130701113427/theamazingworldofgumball/images/f/f9/Famous-characters-Troll-face-Troll-face-poker-45046.png](http://static4.wikia.nocookie.net/__cb20130701113427/theamazingworldofgumball/images/f/f9/Famous-characters-Troll-face-Troll-face-poker-45046.png)