Kotlin

What is Kotlin?

- Programming Language
- Created by Jetbrains
- Released in 2016
- Compiles to Java compatible bytecode
- Object oriented and Functional



```
class Card constructor(color: Color, value: Int){
   val color = color
   val value = value
}
enum class Color {
   SPADES, DIAMONDS, HEARTHS, CLUBS;

   fun toChar(): Char{
      return when(this){
         CLUBS -> 'c'
         DIAMONDS -> 'd'
         SPADES -> 's'
         HEARTHS -> 'h'
      }
}
```

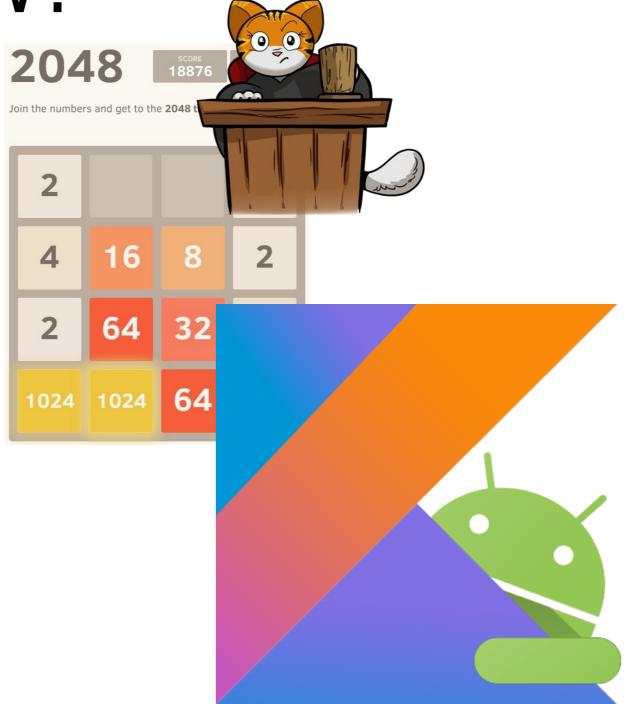
What is Kotlin used for?

- Fully compatible with Android.
- Because it compiles to JVM, it is compatible with existing java code.
- Can be used for everything java is used for.



What we have done until now?

- Getting comfortable with the Kotlin syntax.
- Implemented some algorithms from the INF234 course using Kotlin
- Solved the 2048 problem on Kattis using Kotlin.
- Set up a Android-Studio Project using Kotlin as back-end.
- Implemented entities and some logic for a Blackjack application.



How we intend to do proceed?

- Finish The Blackjack android application
- Create Kotlin RESTservice for highscores and communication between app and server
- Ktor, Kotlin web backend



Sources and references

• Images:

- https://kotlinlang.org/assets/images/twitter-card/kotlin_800x320.png
- https://developer.android.com/images/home/kotlin-android.svg
- https://open.kattis.com/images/kattis/judge.png?7f7dbf
- https://open.kattis.com/problems/2048/file/statement/en/img-0001.jpg
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