# Code Smells – Joana Monteiro, 62689

1.First code smell: **long parameter list**

Location: src>net.sf.freecol>client>gui>animation>animations.java

This code smell is characterized by a long number of parameters in a given method. Methods with this characteristic are difficult to use and increase the likelihood of potential errors. A solution to this code smell would be to pass an object as a parameter instead of so many variables.

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1. Second code smell: **long method**

Location: src>net.sf.freecol>client>gui>dialog> selectDestinationDialog.java

This code smell is characterized by the existence of a long method. A long method means that the method is more complex than it should be. A solution to this code smell would be to take out a chunk of code that makes sense all together, create a separate method and call it inside the function

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1. Third code smell: **message chain**

Location: src>net.sf.freecol>server>model>ServerColony

This code smell is characterized by long message chains in which you call an object and get it back, then call another object and get it. This can cause rigidity in the code and make it more difficult to test independently. A possible solution would be to create different local variables in which each one calls the corresponding object, and pass these objects as parameters.

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