# Circle Language Spec Plan Diagrams, Coding Principles & Coding Concepts

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## Goal

*> 2009-04-07: This is a very old project description.*

*This project was postponed earlier, because it was too big. The concepts of classes & relations were turned into a single project. This project contains the remaining topics.  
  
This document used to have notes about topics not in scope of the Circle Language Spec. Notes about that were moved to another document.*

Document the coding principles and basic coding concepts and their diagram notation. Do that with the ideas I have about them now and avoid difficult reconsideration of principles.

I am going for a spree of writing about issues I already know.

Do the articles that you can easily write, and skip all the ones that are more difficult.

Ignore the fact, that I might change my whole point of view on commands  
(That will be covered by the future project *Commands As A Concept*.)

### Pros and cons for this project

- Previous project was working out issues that might change everything.  
I don’t see any issues left, that might change *everything*.

- The defense for this project is that it is so easy to produce, while the articles are also very important.

### Rules

- Don’t change Commands & Classes loosely coupled.

- Don’t think about which are implemented as a principles and which are implemented as a concepts.

## Steps

… Write more articles

- Look at Computer Language Coding Principles.doc

- Process cross out lists:

- Symbol Language.doc

- Relational Structure.doc

## Approach

There seem to be the following elements about each concept:

- Functional use

- Technical use

- Implementation as a concept

- Diagram expression

Implementation as a concept is not covered in this project.

## Elements

Articles to write **(84)**:

Coding Principles **(18)**:

- Destruction

- Destruction in a Diagram

- Clear

- Clear in a Diagram

- Object Order

- Object Order in a Diagram

- Static Members

- Static Members in a Diagram

- This

- This in a Diagram

Coding Concepts:

Basic Coding Principles **(22)**:

(Type Safety, Parameters, Input / Output / Throughput)

- Type Safety, Genericity, Explicitness

- Type Safety, Genericity, Explicitness in a Diagram

- Extended Coding Principles **(24)**:

- Member Grouping

- Member Grouping in a Diagram

- Inheritance

- Inheritance in a Diagram

- Class Inheritance

- Class Inheritance in a Diagram

- Object Inheritance

- Object Inheritance in a Diagram

- Relation Direction

- Relation Direction in a Diagram

## Ideas

After documenting the coding principles you could go through the old Relation Structure documentation and delete everything already covered, and distill things from it that aren’t considered yet.

> Any entry in Coding Principles in a Diagram will get an entry in the Coding Principles articles.

- Write articles for coding concepts about classes, interfaces and relations

> The description of these coding concepts require partly the idea behind it, as well as how it is programmed as a concept.

> I might just leave out how it is programmed as a concept for now, or keep it very general, with the remark that this is to be further worked out in the future.