# Circle Language Spec Project Steps & Time Planning

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## Purpose of this Document

This document subdivides a project into work items and gives a time planning and time estimation for it.

The goal and strategy of the project were already described in the document *Circle Language Spec Strategy*. The list of possible products to make were already listed out in the document *Circle Language Spec Products*. This document lists out work items and gives a time estimation of the work.

## Considerations

The planning looks quite unrealistic. But that does not make this document any less useful for progress monitoring.

The total amount of points at one point was decided it needed to be covered in 8 months. When not on schedule, choices could to be made about how to speed up progress or products need to be cut.

## Work Items

**1** = Piece of cake

**2** = Easy

**3** = Average

**4** = Relatively hard

**5** = Very hard

**8** = Extreme but known

**10** = Extreme and unknown

Things are slightly over-scored, because the relatively easy topics were selected as part of the planning. The scores are not only about how easy something is, but also how much work. The orange items are postponed and not counted up in the planning.

Roughly:

- Coding Essentials **(5 items) (17 points)**

- Automatic Diagram Organization **(2 items)**  **(10 points)**

- IO **(2 items) (20 points)**

- Total new computer language: **9 work items (47** points**)**

- First: **(7 items) (27 points)**

- Coding Essentials: **(5 items) (17 points)**

They are easy, because they are clear,

but it is still quite some work to work them out.

- Inheritance **(3)**

- Type Control **(3)**

- Object Resolution **(4)**

- Static & Redo Classes & Relations **(5)**

- Work out Static

- Redo Classes articles

- Redo Relations articles

- Coding Essentials, Other Requirements **(2)**

- Automatic Diagram Organization: **(2 items)**  **(10 points)**

- Finish Automatic Containment **(5)**

- Diagram Metrics **(5)**

- Automatic Containment

- Reconsile bidirectional relations and automatic containment

- Later: **(2 items) (20 points)**

- Input Output: **(2 items) (20 points)**

- Input Output **(10)**

- Concurrency **(10)**

- Automatic Execution Order

- Concept Construct **(5)**

- Errors **(5)**

- Unrequired:

- Merging conceptual explanation and diagram expression:

- Redo theme: Objects **(2)**

- Update Execution Control **(2)**

- Update Relations **(2)**

- Redo theme: System Objects **(2)**

- Easy theme: Conversions **(3)**

- Medium theme: Conditions **(2)**

- Medium theme: Extend set of Fundamental Principles **(2)**

- Redo theme: Commands **(2)**

- Redo theme: Parameters **(1)**

- Redo theme: Globality **(1)**

- Black Box Postponed Work:

- Black Box Cross-Out System Objects Topics **(4)**

- Black Box Miscellaneous Issues **(3)**

- Black Box Side-Issues **(3)**

- Black Box Details, Cover Last **(3)**

- Black Box Details, May Not Cover **(3)**

- Black Box Cross-Out Remaining Issues **(3)**

- System Objects Postponed Work:

- System Objects Cross-Out Details **(2)**

- System Objects Cross-Out Ideas **(8)**

- System Objects Additions **(5)**

- Hard topics: **(9 topics)**

The list below are not separate themes.

An exact planning might not be made for these topics.

- Diagram Topics

- Fundamental principles

- Integrate new ideas

- Later, the material and the reading order should change, so it is easier to *read*.

- Wrap up

## Total Points

**47 points**

## Reverse Planning

*(Based on old total number of points of 141 and a specific available time period in 2009.)*

**~~8 months~~**

**~~34 ½ weeks~~**

## Velocity

*(Based on old total number of points of 141 and a specific available time period in 2009.)*

**17 ½ points per month**

**4 points a week**

## Samples

Redo themes in 4 weeks.

Easy themes in 5 ½ weeks.

## Unrealistic

Even though this seems an unrealistic velocity, this is the schedule to continue with.

Even though the velocity may be wrong, the score points are still usable for progress monitoring.

## More Considerations

Even though the time planning is unrealistic, maybe consider the primary goal with the project: make ideas easier to pick up by others. That means, that newer ideas get lower priority. You might for instance choose to only cover a general view on a topic instead of working out the exact details of a concept. Perhaps you could settle for less regarding certain topics. And even when 8 months does not turn out to be do not make it in the 8 months to come, the most important topics would still have been covered.

## Overview for Progress Monitoring

- Easy theme: Inheritance **(3)**

- Easy theme: Type Control **(3)**

- Easy theme: Object Resolution **(4)**

- Easy theme: Conversions **(3)**

- Medium theme: Conditions **(2)**

- Medium theme: Extend set of Fundamental Principles **(2)**

- Redo theme: Objects **(2)**

- Redo theme: Classes **(2)**

- Redo theme: Relations **(2)**

- Redo theme: System Objects **(2)**

- Redo theme: Commands **(2)**

- Redo theme: Parameters **(1)**

- Redo theme: Globality **(1)**

- Redo theme: Execution Control **(2)**

## Eventual Time-Cost

(The first two phases were finished before this time planning)

Phase 1: 2008-03-05 – 2008-10-01 = **7** months

Phase 2: 2009-04-05 – 2009-06-21 = **2 ½** months

Phase 3: 2009-06-22 – 2009-09-27 … = **3** months … (should become **8** months)