# Circle Language Spec Plan Steps & Time Planning

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## Purpose of this Document

This document aims to subdivide 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 Product List*. This document lists out work items and gives a time estimation of the work.

## Considerations

The planning looks sort of unrealistic. But that should not make this document any less useful for progress monitoring.

At one point it was planned for the total amount of points to be covered in 8 months. When not on schedule, choices could to be made about how to speed up progress or products could be cut out of scope.

## 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 might be slightly over-scored, because they are just variations on relatively easy. (Though that sounds a little bit optimistic.) The scores are not only about how easy or difficult something is, but also how much work. The orange items are postponed and not counted up in the planning.

Roughly:

- Coding Essentials **(6 items) (14 points)**

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

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

- Total new computer language: **10 work items (44** **points)**

- First: **(6 items) (24 points)**

- Coding Essentials: **(6 items) (14 points)**

They are potentially easier, because they are clear, but it might still be quite some work, to work them out.

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

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

- Work out Static **(1)**

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

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

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

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

- Finish Automatic Containment **(5)**

- Diagram Metrics **(5)**

- 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)**

- Optional:

- Merging conceptual explanation and diagram expression:

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

- Update Execution Control **(2)**

- Update Relations **(2)**

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

- Easier 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 might be changed, 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.

Easier themes in 5 ½ weeks.

## Unrealistic

Even though this seems an unrealistic velocity, this could be used as the schedule to continue with.

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

## More Considerations

Even though the time planning might be unrealistic, maybe consider the primary goal of the project: make ideas easier to pick up by others. That means, that newer ideas could 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 enough to cover everything, the most important topics should have been covered, because those were probably put at the top of the list.

## Eventual Time-Cost

(The first two phases were finished before this time planning. See done sub-project descriptions for details what the phases entail. They are just time periods.)

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 …