# New Computer Language 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 approach of the project were already described in the document *New Computer Language, Strategy*. The list of possible products to make were already listed out in the document *New Computer Language, Products*. This document lists out work items and gives a time estimation of the work.

Next to the project *New Computer Language Functional Design*, this time planning is also covers other work to do during this 8 month period.

## Considerations

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

You also have to consider, that I will be *studying* a portion of the time.

Looking at the fact, that I have to look for a job and start a new job, progress may be slowed down. But earlier analysis showed, that that starting a new job does not harm progress of software development projects at home.

If you go past the ‘2 years to go’ barrier of your Bachelor’s course to start, then that is not a disaster. So be it. If the studies take more time, then you can reapply to a course, and do the more recent generation of studies with <vrijstellingen>. They would not deny you that, because you will be too far progressed into the studies to imply that you are not going to be able to finish the the course.

The total amount of points needs to be covered in 8 months. When not on schedule, choices need 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

Most of the work items are easy, except for those postponed hard ones, so everything is rated in different grades of easy. The scores are not only about how easy something is, but also how much work.

Roughly:

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

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

- Math & Integration **(2 items)**  **(14 points)**

- Internet Complete **(2 items) (13 points)**

- Concepts **(5 items) (19 points)**

- Querying & Collection Operations **(8)**  
- Politically Correct **(3 items)**  **(18 points)**

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

- Total new computer language: **22 work items (119** points**)**

- Studying: **(228 points)**

- Other work: **(2 items)** **(6 points)**

- First: **(9 items) (41 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)**

Static:

- Work out Static

Classes:

- The explanation about class commands sucks. It is really difficult.

- Merge conceptual explanation and diagram notation explanation

- The term Target Class may have to be split up in two definitions.

Relations:

- Change the notation for a bidirectional relation.

- Relations does not make sense anymore when related classes are not necessarly fixed by the class.

- Relations to pointers (skip it if you find it too hard.)

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

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

- Finish Automatic Containment **(5)**

- Diagram Metrics **(5)**

- Automatic containment

- Reconsile dual relations and automatic containment

- Math & Integration: **(2 items)**  **(14 points)**

- Math **(4)**

- Integrate **(10)**

- Later: **(13 items) (78 points)**

- Internet Complete: **(2 items) (13 points)**

- Caching **(5)**

- The Physical & The Logical **(8)**

- Internet as a single computer

- Linkage of the physical and the logical

- Storage Caching

- Concepts: **(5 items) (19 points)**

- Concept Construct **(5)**

- Editing Concepts **(4)**

- Controls Concepts **(4)**

- Coding Concepts Misc **(3)**

- Data Concepts **(3)**

- The principle of concepts

- Querying & Collection Operations **(8)**

- Politically Correct: **(3 items)**  **(18 points)**

- Errors **(5)**

- Binaral **(5)**

- Access Control **(8)**

- Access Control

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

- Input Output **(10)**

- Concurrency **(10)**

- Input / output

- Concurrency resolution

- Automatic Execution Order

- Studying: **(228 points)**

- Study: Microsoft Certification, .NET Foundation **(6)**

- Study: Microsoft Certification, ASP.NET Technology Specialist **(6)**

- Study: Microsoft Certification, ASP.NET Professional Developer **(6)**

- Try Out Technologies **(10)**

- Bachelors Degree **(200)**

- Other work: **(2 items)** **(6 points)**

- Update working methods **(4)**

- Start new job **(2)**

- Unrequired:

- Merging conceptual explanation and diagram expression:

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

- Merge conceptual explanation and diagram notation explanation

- Merge concept & theme: Execution Control **(2)**

- Merge conceptual explanation and diagram notation explanation

- Merge concept & diagram: Relations **(2)**

- Merge conceptual explanation and diagram notation

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

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

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

- Medium theme: Handy Access **(2)**

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

- Medium theme: Apply **(4)**

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

using the ideas in the idea box, but do not write all the articles, but do add a description too the Contents page.

- Medium theme: Some Data Concepts **(7)**

(7 points, because it is so much)

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

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

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

- Not sure if this will have to change

(score points are not part of the parent project)

- 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 will not be made for these topics.

- Diagram Topics

- Text Code Topics

- Other Expression Topics

- Certain Data Concepts

- Internet Concepts

- Fundamental principles

- Integrate new ideas

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

- Wrap up

## Total Points

**141 points**

## Reverse Planning

**8 months**

**34 ½ weeks**

## Velocity

**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 a completely unrealistic velocity, this is the schedule to continue with.

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

## More Considerations

Even though the time planning is unrealistic, you have to consider your primary goal with the project: make ideas easy to pick up by others. That means, that newer ideas get lower priority. You can for instance choose to only cover your general view on text code expression instead of working out the exact textual syntax of each and every concept. Perhaps you could settle for less regarding certain topics. And even when you do not make it in the 8 months to come, you will still have covered the most important topics.

## Overview for Progress Monitoring

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

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

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

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

- Try Out Technologies **(0)**

- Other work: Microsoft Certification, .NET Foundation **(6)**

- Other work: Microsoft Certification, ASP.NET Technology Specialist **(6)**

- Other work: Microsoft Certification, ASP.NET Professional Developer **(6)**

- Other work: Update working methods **(4)**

- Other work: Look for job **(2)**

- Other work: Start new job **(2)**

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

- Medium theme: Handy Access **(2)**

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

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

- Medium theme: Apply **(4)**

- Medium theme: Errors **(5)**

- Medium theme: Some Data Concepts **(7)**

- 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)**

- Hard topics **(50)**

## 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)