# Circle Docs Revamp Project Notes 2019-08

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## Project Outline

### Introduction

Circle is an unfinished programming language.

I spent thousands of hours spread out over a few decades with this idea of how to better express the internals of computers and programming language constructs.

Circle Docs are an unfinished programming language design. The same folder of docs contain texts about all sorts of software applications. But this project 'Circle Docs Revamp' is really about the programming language design.

Is it really such a good plan to open source it? Am I really not just throwing away money? Maybe it is better to wait with that decision, after I know where things are heading with work and income?

### Goals

#### Main goals

* Work on project that seems to matter.
* Keep my head occupied with something else.
* Get the documents in a state better accessible to others.
* Make the documents usable for implementation.

#### Side goals

* Make a technical design

To highlight the challenges of how one might implement this as a working piece of software.

* Open source it.
* You may as well open source the prototype apps.

### Limitations

* Do not program.
* Limit it to the 'Language' part of the docs (not 'Framework', 'Operating System' or 'Applications & Media')

### Steps

* Convert version folders to source control history.
* Reorganize files and folders (e.g. lone files in folders is not handy).
* Turn separate Concept/Diagram/Text Code articles into one.
* Start reading / writing / reformulating.
* Read up on the original goals of the projects postponed long ago.

### Problems

* The read uses terminology in a very specific way, that is not shared with my peers, therefor not easing readers into the material. Maybe an introduction would do. The 'older' versions actually seemed to give that more gradual intro, that takes the reader by the hand, leading them to how and why this is actually useful, rather than just plainly stating the shapes that the diagrams can contain.
* That said, I do want to quickly come to the raw definition of how the diagrams are built-up. To introduce the raw basic specs quickly.
* The work might be modularized. I am not attacted to how CSS3 is modularized, each piece of specs with a different state of being finished up. It seems messy. But I can employ the same organization to accept certain concepts are just more crystalized out than others, making it easier to share, even in an unfinished state, and stimulating keeping things separated and separately usable even when other parts are just really still messy.
* One point of failure I see in this computer language, is that it works well when there are a limited number of symbols, but as lists get big, the language seems to lose its effectivity. One way to still make it useful, is perhaps to filter, or only partially display lists in the diagrams, just like a normal grid or list would. There was a prototype app that would generate diagrams out of vast sources of symbols. The problem became apparent there and it has been in the back of my head since then.
* I seem to have had several goals fighting over eachother, in projects done long ago about this documentation:
  + Explaining it to myself.
  + Designing the concepts separately from the notation.
  + Tying together loose ends.
  + Making it easy to read for someone else.

## Notes

### 2019-08-05 Brainstorm Circle Language Design

The 'large lists' problem in Circle also applies to large lists of commands, that might apply to an object.

Also that UI's are often optimized to show the most relevant options and then I just say: no none of that, everything only.

Maybe it's just that this UI will have its place along side other techniques.

It's just that the large lists problem should be solved in my view.

Maybe permanent filtering and reordering, which is often hard to customize in windows programs. Like a menu customizer.

Try to make it easier to do that. Construct your own limited view.

### 2019-08-05 Brainstorm version control and open source

There is an '… IPC Parse.doc' text in the source control history. It should be deleted. I guess I have to search for intellectual property problems. This in docs that are so intellectual property sensitive. Before open sourcing it, you need to do this intellectual property check.

There is a folder 'Previous Versions' that would make you think you forgot to put those at the beginning of the conversion from version folders source control history. But they are not necessarily previous versions of documentation, but more like previous versions of systems.

2004-00-00 XX Symbol Language\Symbol Pictures (Keep Packed, Paths Too Long).zip has intellectual property problems in Pictures\Diagram Examples.

## Done

### 2019-08-04 Done Notes converting version folders to source control history

This is a lot of work.

* Exp: Search for XXXX in the folder "Circle Docs\1. Language".
* Obs: 54 matches.
* Hyp: 54x a version folder structure to convert to source control history.
* Less than I thought and probably doable.
* Maybe rename all commits, putting the version number in front, so it is more apparent that it is alternative source control history.

### 2019-08-10 Done Brainstorm complexity in preserving rename history

The version folders I have left to convert to source control history are complex, if you also try to get a rename mapping in check. Even if you ignore the rename mapping, you have quite some work to do.

It was not expected that there would be such complexity in preserving rename history, but noticing that there is, makes me re-evaluate my plans.

To get overview of the amount of version folders still to cover: The version folders are visible on the 'root' level per chapter. The amount of version control on *sub-*topics is limited to just one (24. Creation Behavior Of Calls). Its about the *main* topics: Commands, Parameters, Globality, Execution Control, Black Boxing, Interfaces, Events and Inheritance. One of those topics has intensely many version folders (Black Boxing). About 3 topics have a 'normal' amount of version folders. The others have a quite small amount of version folders. If you ignore trying to preserve rename history, then you might be done today. If you try to preserve rename history, it will take you probably many days, like 4 or something. And I think the motivation will recede if I do that.

So I have already made my choice. I will not make effort to preserve rename history. I will just methodically convert the version folders to source control commits.

### 2019-08-11 Done Basic Math Conversion to Source Control History?

The 2 versions' contents:

2005-01-06 00 Former Documentation:

Any programming topic about math I had at the time is thrown into one document here:

\* JMath 0.9 docs in Dutch

\* Simple Math operators

\* Ideas about 'regulated systems'

\* Number Bases

\* Brainstorm: Some alternative wordings and loose ideas written down.

The XXX version is only Simple math operators and how they can be implemented as objects.

Idea bout converting version folder to source control history:

So they are not mutually exclusive at all.

I have doubt whether I should even do the conversion from version folders to source control history here.

Using my rules, I'd put the older docs in archive, but neither 'version' is more deprecated than the other. They are both old, and they are both the latest version of things.

The math as objects does have a link to how math can be made not intrinsic to the language, but an extension library, which can still be compiled to good old CPU instructions. That concept is interesting for the idea of the new computer langauge. But... none of this documentation is well worded to suppord that concept...

### 2019-08-11 Done Controls Concepts Conversion to Source Control History

* I can convert the version folders to source control history the regular way, because each successive version does seem to replace the former version.
* Where is that navigation model brainstorm?
  + It is in the control concepts' root folder. It has a doc in it directly, which I overlooked.