# Circle Language Spec Revamp 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 visually express the internals of computers and programming languages.

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

### Goals

#### Main goals

* 'Soft' goals:
  + Work on project that seems to matter.
  + Keep my head occupied with something else.
* 'Hard' goals:
  + Isolate the Circle Language docs from the rest of the docs.
  + Open source the Circle Language docs.
* Low priority:
  + Get the documents in a state better accessible to others.
  + Make the documents usable for implementation.
  + Make a technical design

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

### Limitations

* Do not program.
* Limit it to the 'Language' part of the docs (not 'Framework', 'Operating System' or 'Applications & Media')
* Do not open source the prototype apps.
* Before I start changing anything, I might just read the material as-is.

(I have great difficulty maintaining this rule. I tend to immediately want to start changing things.)

* I might want to focus on splitting apart non-Circle-Language topics from the Circle Language topics.
* Maybe not write to clarify new concepts, but rather limit it organizing already worked out concepts.

### Steps

* Reorganize
  + Convert docs version folders to source control history.
  + Convert project docs version folders to source control history.
  + Categorize loose ideas in in Ideas.doc, so Circle Language and Circle 3 Programming are isolated.
* Reorient
  + Read project docs sequentially for thorough orientation.
* Improve planning docs:
  + Reorganize project docs
  + Remove studying goals.
  + Split documentation goals from programming goals.
  + Less resolute language, more wiggle room.
    - (Perhaps search for definites such as 'have to', 'must', 'will', 'should', 'very'.)
    - (The 'Productive Writing' part of the Strategy doc is quite resolute in the language.)
    - (Maybe I am being too strict towards myself, about having to rewrite everything in a milder tone.)
  + Include hour sheet?
* Improve Circle Language Spec:
  + Reorganize Circle Docs files and folders (e.g. lone files in folders is not handy).
  + Drop loose ideas from Ideas.doc into the appropriate spot in the documentation.
  + Turn separate Concept/Diagram/Text Code articles into one.
  + Start reading / writing / reformulating.
  + Convert from Word to markdown, so it may get indexed by Google and easier to navigate and read once published.
* Separate git repositories:
  + Split off Project Docs for Circle language documentation into a separate git repository.
  + Split off Circle Docs' language specification part into a separate git repository.

### Requirements

* Read "New Computer Language, Strategy.doc"
* Read "New Computer Language, Products.doc"
* …

## Information

* For converting to Markdown:
  + <https://pandoc.org/index.html>
  + <https://word2md.com>

## Notes

### 2020-04-18 Notes Reword The Done Circle Language Spec Planning Docs

* Ideas document: ISNSE = Internet as a Single Computer > But why? Internet aS a[N] Single Entity?
* The aim is to use less definite, more open, language and to take out the personal 'I' form. Consider reformulating command-like sentences and rule-like statements to add maybe's and perhapses or past tense to describe events in the past.
* Also check: whether the stories make sense.
* And whether the content is still in scope.
* Remove links, since they break so easily.
* That seems quite a lot to check. Maybe that is why it is not easy.
* Done projects:
  + / It kind of bothers me that the story starts in the middle. Where are the other sub-project descriptions? Maybe mixed with other big projects, like 'Software System Documentation'. Maybe.
  + 2008-05 01 Diagram Expression Specs Project Summary.docx
  + 2008-05 02 Classes & Relations Specs Project Summary.docx
    - / Rename "Relation" => "Relationship" > I would keep the term relation in there for now, otherwise I would have to go through so much documentation. If I refer to a product with the work relation in it and change it in the planning docs, then I also would have to change it in the language spec docs and that is just a whole lot of work. I briefly looked up a discussion online about these words, and it does not seem people can find a really clear distinction or rule, just wishy washy hand wavy stuff, I think. It's just that in IT the term is usually 'relationship'. In the spirit of not alienating readers you might change it, but it does not seem semantically incorrect would you accidentally use the word 'relation' instead.
  + Brainstorm: I worry a lot if the words come off too strongly. On top of that I am not in a very subtle mood right now. If I was feeling more calm and friendly, I might have better judgement about it. Maybe I cannot do this right now. I can only judge language constructions, not whether it feels right. When my base line mood would be calm and friendly, I can just feel whether the words bump with that or not. That might be easier. Sometimes just using calmer language, makes me calmer, but right now it does not seem to be working.
  + 2008-06 01 Execution Control Spec Project Summary.docx
  + 2008-06 02 Command as a Concept Spec Project Summary.docx
    - It mentions topics very much out of scope.
    - I think it might not be harmful to keep that mentioning in there.
    - Maybe I am trying to hide the out-of-scope topics too rigorously.
    - There seem to be maybe's and perhapses missing, but it does not seem to sound too blunt.
    - Reconsider to split into in-scope and out-of-scope parts.
    - Brainstorm: The input / output topics is so present in this sub-project description. It does not seem lightly touching the topic. Sometimes it is half a paragraph that goes on about just that, while it is not in-scope anymore. Maybe it is worth trying to extract it out, so the summaries of the work become simpler.
  + 2008-06 03 Clarify Command as a Concept Spec Project Summary.docx
    - I would like to look at the end-result of the project 'Clarify Command as a Concept Spec' to see if the description of the work done still makes sense if you split it in two.
    - Maybe the sub-project Clarify Command as a Concept is mostly out-of-scope.
    - That whole project should be out of scope, because the end-result is just about input/output and concurrency resolution.
    - That would change the super project description too.
  + 2008-07 01 System Objects Spec Project Summary.docx
    - Maybe reformulate harsher words, rather than understanding the text of all the notes. The notes are really unpolished.
    - > Was at 'Other Issues' taking out the more harsh wordings.
    - I see the difficulty of using the words 'concept' vs. 'aspect'. I want to call it 'aspects' everywhere. But contradictory: 'aspects' is now considered out of scope, while I cannot easily prevent mentioning it at all, because it was in the back of my head during some of these projects. I also have this a little with the term 'code base' which I want to rename to 'base of the code', because 'code base' is a term often used differently in IT.
    - Wording:
      * Is it really such a problem, that I talk in definites about steps taken and rules of the systematics as I try to work them out? Maybe in talk like that, still add a 'might'. Imagine what if you would not explain to yourself, but to someone else that has to work it out further. Imagine what it would feel like if someone else read it. Like you're being dictated rules, perhaps.
      * After that I might want to change command-like sentences and rule-like statements, to just add 'might' to it or other wiggle words. I would talk to myself that way, just maybe comes off harsh. Maybe being less strict towards myself is also not a bad idea.
      * Added maybe's.
      * Perhaps after that a reformulation phase. I tend to come up with nicer flowing alternatives to just the word 'maybe'.
    - Out of scope ideas:
      * I see this document talks about what I would rather call a runtime. Figuring out how Circle could work stand-alone up and running is probably not in the scope of this project anymore. Just describing the language, mostly the diagram notation, is.
      * I see a sentence where I call the System Objects essential for the workings of Circle. But if you see the notation as separate from the runtime it does not seem that essential.
      * So how do I reword this putting these ideas out of scope, without harming the integrity of the content?
      * Hyp: In the original text I express that I feel system objects are essential, as a run-time, not for the notation.
      * I keep seeing the idea of a runtime back. It's an interesting idea, but not in the anymore scope as I want to isolate it. I am reluctant to remove the text, because it is so nicely descriptive about that idea.
      * All in all, I am still uneasy about multiple subjects now considered out of scope, being intermixed in the texts of this sub-project description.
      * The 'other issues' seems to contain loose ideas not fully worked out, part of the aspects construct for instance, or about a run-time. It seems to me some of those ideas, e.g. under 'Other Issues' could be cut-pasted to out-of-scope Circle Language projects.
      * It seems the System Objects Spec Project Summary has a some content that is maybe lazily left in there, while they are also like future ideas?
      * Q: The things that I now consider out of scope, that are mentioned in the sub-project planning documentation for System Objects, are those things even inside the actual language spec content for System Objects? Or is the language spec content also littered with now consider out of scope content?
      * The chapter starts as if it *is* a run-time.
      * Maybe you can solve it easily, by introducing it as though it would run as a run-time, but the idea of controlling system aspect is wider in use and can represent constructs from other languages too. Or something. Maybe just put it into context. Or multiple contexts: can be a run-time, can be representation of system commands already part of the language. In a run-time the idea was that an object lives as sort of reflective data, so a reflection-first environment, where reflection data is not accessed through an API, but more like a readily available, language-intrinsic secondary representation of an object. Having full fledged self-reflective object live in a run-time might not be the most optimal performance-wise, though quite flexible perhaps. An idea is to have the system interface be there if you need it, and optimized away if not needed or just be a view on it, not necessarily a non-optimal way of object representation in runtime. I am going too far with this now, I think. Too many edge-cases. Lots of ideas come to mind.
      * I read most of the content of the System Objects chapter. I forgot what for. To assess whether the topics in the planning docs about it even made it into the documentation. Maybe I can assess that later.
      * Read the sub-project documentation again, to see if some things can be moved out-of-scope?
      * As I read the first sentences of the sub-project planning doc, I tend to want to redescribe it, now I can put it into context. As I explain that context, the integrity of the planning doc seems in tact again.
      * I want to keep reading over and reformulating.
  + Brainstorm wording:
    - Maybe I go a different direction with this.
    - With my gut I might assess whether the language is too blunt or not.
    - Maybe if it just list things, that actually happened, then it might not be much of a problem.
    - Definite language to create a pseudo-truth for a false sense of control, might be a problem.
    - Things stated as rules, that are not hard rules might be a problem.
    - When setting rules to follow a plan, wiggle words might be helpful.
    - Black and white opinion about something that may or may not be true, might be a problem.
    - In some sentences it seems more obvious. If they sound opinionated and black-and-white.
    - Maybe I am looking for clues in texts where there are none. Sort of like when I am driving and see no other traffic, I am scared that there may be traffic, that I am not seeing.
    - Words like 'annoying' or 'constantly' trigger more easily. Stating something as definite, without 'maybe's seems a more subtle 'problem'.

### 2020-04-13 Notes Circle Language Spec Planning Docs

* Reformulate:
  + I would want to read over those Done projects content before publishing. I should know what I publish exactly and have evaluated it and made some adaptations possibly. Probably nothing in it is a secret, so you don't need to remove it from source control history, but slight changes might be good.
  + I did not read the content of the sub-projects or the idea box.
  + I think, I guess, I would want to go through content top-down for reformulations?
* Tone:
  + Some things especially in evaluations may seem cocky when I call my own successes very, very good. I don't know if I need to change that. I also use I and you interchangedly when I talk about myself. Not sure if I have to change that. The plans sometimes talk in definites. Maybe openness is better language, I mean more wiggle room in the wording. Not sure if that's a problem.
  + I worry what people would think of me. If they'd think I'm arrogant… maybe I should not worry about that.
  + Cockiness/speaking in definites, and scope/out-of-scope are 2 different things. My intermediate goal now was to change the tone, not to change the scope covered by the documents? There are still gray areas of scope. I think I should deal with that later?

### 2019-12-29 Brainstorm Scope

* Basically I want to scope the project.
* Out of scope:
  + Operating system components
  + Studying
  + Fundamental principles
    - Basically all of them are probably out-of-scope.
    - Do I limit the ambitions with the project?
    - Do I remove fundamental principles that are questionable or irrelevant, like that the code base is written in C++, or things that may speed up development, things others could figure out, making how I feel about it not add much? Maybe ease up on things, talk less strict about things?
  + 'Software System': an abstraction layer above the new computer language.
    - I think I should take interesting parts from the general Software System documentation.
    - Then drop them somewhere in the Circle Language Spec documentation.
    - Also for the planning docs: there are Software System Documentation out-of-scope projects. Perhaps part of it was Circle Language Design.
  + Computer language topics out-of-scope:
    - Concepts / aspect oriented programming
    - Database principles
    - Concept libraries
    - Machine language
    - Internet as a single computer
    - So many things, but I want to leave them out.
* The data concepts and coding concepts thing, and the aspect oriented-like thing, I may want to put that out of scope. I might want to accept that the idea I present has limited potential, and might not apply to what you can do with a database, or ambitious aspect oriented programming ideas… just object oriented programming expressed in diagrams is good enough. I had no idea back then how to merge the two or three concepts into that diagram language and maybe I should just give up there. That seems more achievable. I am sick, and not sure I am capable of doing anything large anymore ever.
* *Diagram notation / redesigned constructs / gap lifting*: Eventually, you might split the in-scope topics apart in pieces that are in-scope and others that are out-of-scope. Some ideas just aren't the original ones, not the hot idea, and not prone to be adopted. For instance: The spaces in identifiers, text code ideas… I might have done good by keeping conceptual thoughts apart from diagram thoughts. I tend to want to merge those two aspects for the benefit of the reader. But I also tend to want a diagram notation that can be applied to other programming languages as a source for the diagrams. In that case, not all wild conceptual ideas are relevant. I did have thoughts: how would I implement this if I did it from the ground up, how would I implement that if I did it from the ground up, like interfaces, inheritance, ref-ness etc. Also I had ideas on the other end of the spectrum, more macroscopically: how far can I take the application of this diagram notation? Could they even substitute user-interfaces? Could boundaries be lifted, for instance, between things running on different computers and the boundary between users and programmers. The language gaps between things like files and folders, databases, programming languages, user interfaces… gaps between the physical and the logical. All that. Interesting stuff. The application of them are different (of *diagrams, conceptual constructs* and *boundaries lifting*). Another example is the automatic diagram organization topics. The diagram notation idea can live totally without some of the wild ideas in that. For instance, interchangeability between containment and referential structure or inversibility of containment in case of bidirectional relationships. Also the striving to want almost all relationships between objects to be bidirectional, does not apply if you want to use the diagrams to express systems in which you have a choice if relationships are bidirectional or unidirectional. Also giving things a different name (aspects are all of a sudden called concepts) is not a priority, and perhaps even alienating. Those are just some ideas I have about how to pull things apart. I think maybe those differences in application call for a rigorous split up: *diagram notation / redesigned constructs / gap lifting*. Diagram notation is a bit of a grey area, because it wants to use constructs. Some of the notation capabilities imply different variations of otherwise fixed constructs. Black box is a notation I dislike. It works, but it is not elegant (I think). Also, if you take C# as a source, rules about private/public are set, and some things just don't have to be denoted, because they are implied. A method contained by a a class can access all the other private members of that class. In my efforts to generalize and make things interchangeable, this 'had to be' explicitly denoted… I think a separation of some main groups of concepts is appropriate here, so the ideas are better transferable and perhaps better usable and applicable. It might make the general idea about the diagram notation more pure and also more freely usable. An argument that falls away with this open sourcing compared to patenting is that things do not need to have a closed, unambiguous definition. Things can be just part usable, using and replacing rules as one wishes. You can say at some point the diagram notation surpassed the original goal on two ends. I had an explosion of ideas then surrounding this notation. Boundaries between ideas were not well defined. That's a (good?/bad?) quality of my way of thinking, I guess. But I tend to want to focus things, by splitting things apart in the main blocks, so it that it might become more practical (for others or myself).
  + "Circle Language Spec" / "Circle Language Broader Vision" / "Circle Language JJ's Construct Proposals"
  + I don't like the last name. It seems convoluted.
  + Proposals seems more community-based, not single authorish.
* Language Spec vs Broader View:
  + The idea that the diagram expression should be canonical and unambiguously express anything from any computer language, might not be a rule I want to uphold in the Circle Language Spec doc. For instance if C# has certain rules for scoping of implied accessibility rules of members, you might not want to express that in a diagram. It sort of would make no sense if the diagrams are applied like a helper tool in Visual Studio to visualize certain aspects of C# code, to have symbols that disambiguate something, that is not unambiguous according to C#. The concept of canonicalizing things, may have a better place in Circle Language Broader View docs, I mean to isolate from the Circle Language Spec. A reason for unambiguous expression may only become clear, if you look at those ideas about possible broader applications of this notation: specifically where in a diagram you just switch from one source language to the next, by navigating the symbols. (E.g.: Now the diagram expresses something with C# as the source, navigate onward and you may see some diagram expressing something that came from JavaScript… the rules change, maybe the diagram expression should be unambiguous.) I think it is good and keeps it simpler and ideas less stuck on eachother, to speak in options for diagram expression. There is a general theme in the expression. It is not all wishy washy, but there is wiggle room for how to use it. Lots. I just want to share the idea, not impose how it should be used.

### 2020-04-13 Brainstorm Scope

* Scope:
  + Some content in the idea box is also out-of-scope.
  + Strategy: Goal of the Language: It mentions fundamental principles, that may become out-of-scope. Higher Goal does too. Will I separate these things? So say: it’s a (diagrammatic) programming language. I had thoughts about saving the higher goals for later.

The scope used to be split in two: Language Spec and the rest.

Now I lean to a split up in 3 of 4 actually: Language Spec / Broader Perspective / Construct Proposals / Other.

This changes things. This puts even more out of scope of Language Spec. Earlier on I thought anything that has to do with language spec could be in scope of this project, but part of its postponed parts. Yeah this seems arbitrary terminology, that seems to mean the same, but I am going with it. Earlier anything language speccy would be still in the project definition, but deemed optional. This split up is by feeling it is part of the language or not part of the language. Now I actually have in mind 3 categories of things that kind of fall under that umbrella 'part of the language': Language Spec / Broader Perspective / Construct Proposals.

I feel maybe I am not finished making the first split up and now already starting with the next?

>> I want to check that.

Also the new split up would give the wilder ideas a place, not on the big pile 'other', like internet as a single computer would be 'broader perspective'. Actually… you could interpret it differently. Everything not part of Language Spec will at first be put on the pile 'Other'.

Maybe it is better to put off fine-tuning the scope for now. First make it neat the way it is. I was making such nice progress with that, wasn't I?

### 2020-04-19 Brainstorm Conversion to MD

* I thought MD would be the way to go with this project compared to docx. But I have doubts if MD is the better way to go. I keep getting stressed out about those doubts. It makes my decisions on what to do with the documents (formatting) harder, because I just am so unsure about this. What I would like is to have a good MD editor. I just hope some of the difficulties editing MD compared to docx can be taken away by a good tool. Also: I think MD will be vieweable and better indexeable on the internet, but I have not really thoroughly seen that confirmed. The main problems with MD editing I have is navigating headings and sections around and viewing the outcome of my formattings better as I type the MD in. The doubts about indexing: I know GitHub can show the MD in nice formatting, but will a lot of MD's actually be nicely navigatable? Will those MD's actually be indexed, or does that only count for e.g. the REAME.MD in the root dir of a git repository? another doubt about MD is: can I be satisfied with some of the tools that convert docx to MD? Will that all be doable? It's so many articles. Can I do it in bulk? Will I merge more articles into one making converting one by one by hand better. How does it work with links but especially with images? All those doubts made me postpone decisions about converting things to MD, but that makes me burdened with formatting docx's making them look nice, which is not that useful if I am going to convert all of that to MD anyway. That last argument does not seem very strong to me. If I know that MD indexes well, that might already make some decisions to go for MD easier, when I decide e.g. about small documents.
* So with all those doubts, I want to explore MD options a little.
* Main points:
  + MD editor
  + Will MD show and index better on the internet?
* Notes:
  + Trying to research this puts a strain on me.
  + I found out relative links to images work nicely in MD on github.
  + I cannot find if google will index the content well.
  + I do know that clicking an MD in GitHub leads to nicely readable page. That's something you cannot say about docx's.
  + That last point may actually convince me already to make MD's more often.
* MD editors:
  + Visual Studio code has a preview view and outline view: <https://code.visualstudio.com/Docs/languages/markdown>
  + <https://duckduckgo.com/?q=MD+editor&t=opera&ia=web>
  + <https://marketplace.visualstudio.com/items?itemName=MadsKristensen.MarkdownEditor>
  + There seem to be options.
* Alternative: Convert the Future Sub-Project Summaries to MD.
  + Pro: Those future docs are short and don't need much formatting.
  + Con: MD is harder to edit (?) > Needs research.
  + Pro: MD is more accessible on the internet (?) > Needs test.
  + I would like to have the arguments for and against better proven.
  + But it is also not directly my goal right now.
  + It would help me to know if MD really has those advantanges. Otherwise I would keep being confused about whether or not I should convert to MD.
  + But pragmatically: That was not what I was doing. It was formatting the docx's, what I was doing. But pragmatism is sometimes something I feel others have determined for me. Maybe knowing something for sure is more pragmatic for me, because the doubt causes me so much stress.
* Concession: Do both. First format the 4 remaining Summary's. Then research MD more.
* Conversion programs:
  + Pandoc: I did not like it. It was expecting a user interface, but I got a command line interface. Also, the output from docx to MD is not what I expected. I got quote markup > for just indentation and a dashed bulleted list got the dashes escaped or something \-. The check list style for GitHub that's kind a sorta already MD format, got escaped it seemed. I get not everything is unambiguously translatable, but this was too far removed of what I would type in myself. So sorry, pandoc. Moving on.
  + I might as well just copy paste to a text document and then do it myself.
  + But I am going into reseach again, and that is not what I want to deeply into. I do not have the energy.

### 2019-12-29 Brainstorm Circle Language Spec: Design

* Rename the term 'Code Base' to something like 'Base Code' or 'Base of the Code'.
* I think that somewhere along the way, the language lost its purity. Hypothetically, I may have gotten carried away a few times. For instance, using the dashed line as a conceptual expression of the idea of 'classes' or 'types': I think I tend to introduce ideas about notations that might simplify things visually, but possibly introducing ambiguity. At first, the language, was to be the purest form that I could find, in which you could draw out an object oriented system in a diagram. What happened to that as I started to make drawing something with dashed lines something ambiguous. I am not sure: this might be a non-issue. But maybe I want to be wary of where I got carried away and not think in definites about the final form of the language. This also counts for e.g. System Command Call with Argument Notation: I introduce simplified, yet abused slightly ambiguous notation for something you probably will never see used. What if at some point I find use case for this simplified notation that also looks like something it's not? E.g. a call to an object getter:



* It's ambiguous, because it looks like the diamond, which is a command call to the getter, is a reference to the object. It reference-associates a command call and an object, which are two separate 'objects', but connecting them with solid lines would suggest they are the same object.
* Maybe expressing doubt about it at the beginning is just as far as the solution might go.
* Even the large 'introduction' document to 'Software System': you might put part of it in one for 'language' and just refer to it from the main document.

### 2019-08-05 Brainstorm Circle Language Spec: Writing Style

* 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.
* 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.
* The design of the programming language should lose some ambition and express that only as dreams.
* I took a look at some of the postponed work. I worry about the messiness of the content. And if the loose ends will make the idea fall apart. And whether this makes it even fit for publishing. I just don't know at all. But I think I should come back to it later. Because I had strategies for this. And I might be too hard on myself. A clear 'flag' [Preliminary documentation] in red somewhere at the top usually does the trick. Might tells people clearly not to not too much from the text that follows. Just being clear about that might be enough.
* Reading over the Interfaces planning docs I noticed I said there I like how the Interfaces chapter reads. I started reading it over. I notice, I only like how it reads where lots of little diagrams are shown. I like it not so much when I just see walls of texts. I think it is my 'brain type' so to say. But I think having both text and pictures would help a lot of brain types. So: more pictures. I like pictures.
* I notice I talk a lot about implementation rather than notation. For instance: Does a dashed circle mean it is used as a class, enforced to be a class, static inside its container, how does it work in the system interfaces? What if it is just the notation that is a good idea, what if the implementation isn't. That might even make system interfaces' precise definition not important or maybe just subjected to diagrams drawn out to represent things from another language, like C#. C# getters and setters might be in a system interface notation. But setting an object reference's interface dynamically in runtime… may be too much of an implementation detail. I think it is a language definition / runtime implementation separation. In think the engineers at Microsoft might be right about developing language spec / runtime / framework / compiler quasi-independently. Maybe I can be inspired by that and make my language definition a litte simpler. I am subjected to the pitfall of wanting to cover every little minor edge-case, of which I have a fear that it may make the whole system fall to pieces. I already warned myself about that in the Circle Language Spec Strategy document. But now I think other people might actually read this, I start to think: maybe limit the scope. Somehow define the diagram notation and what it represents and not want to work out how things would work in a runtime. Runtime would be a system where the diagrams and actually the data that internally describes the diagram, to be loaded and run as computer programs. I think I wanted to check the usability of the notation by shining light on any little aspect of it, I could find. But I think some details are not that important. Maybe those are to be demoted to possible implementation details, to keep the main part of the story clean. I am OK with apologizing in the documentation, that this might not be usable or something. The description in the Strategy document is pretty much spot on, I think.
* I get the problem that next to introducing new notation, I also wanted to introduce new concepts. A new conceptual take on things. I think it all became a little much. Maybe I can improve that during this project 'Circle Language Spec Revamp'.
* I think the 'being blunt' might help. It is not blunt unfriendly, because the explanations might become so much simpler if you say: this is that, this is that, instead of and this far-fetched edge case is solved in this difficult, abstract, theoretical, but precisely determined way, that I'm not sure I even understand anymore… : )

### 2019-08-05 Brainstorm Circle Language Spec: Large Lists Problem

* 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.

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 (with poor judgement?) 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

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?

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.

How do you even license documentation? I wanted to throw an MIT license against it, but that is for code… hmm…

<https://dreamsongs.com/IHE/IHE-50.html>

## Postponed

### 2020-01-13 Brainstorm Aspects / Concepts

'Concepts' are almost exactly like 'aspects' from 'aspect oriented programming', except maybe the idea of whether just about everything can be elevated to become an 'aspect' even things that aren't the aspect oriented programming construct. Even hand-written, coded out aspects, such as those System Aspects in the New Computer Language. Cross-cutting concerns that you couldn't isolate out of the system using an aspect, but are still clearly an aspect from a conceptual point of view. Can new programming constructs be found, that can do that, isolate concerns like that? It is hard to express my ideas about it and explain them well. I don't even have it all clearly in my mind myself yet. Also the comparison requires I know all the details about aspect oriented programming, which I don't.

### 2020-03-22 Notes Circle 3 Programming Planning Docs

* I could change titles of projects inside the doc content too.
  + Also for Circle 3 Programming, though less importantly.
* Could I just go with it, call it 'Circle 3 Programming'? And if I want to mention in the planning docs that to documentation was of little concern, just do it with a more open formulation, like 'documentation was of little concern' or 'very little documentation turned out to be written in these projects. The focus turned out to be on programming the code.'?
* I could put a remark or something in the Circle 3 Programming docs that I did not do any documentation, even though it was the initial plan to do that.
* I was going over some sub-project docs to check if any documentation was written during those projects.
* Other sub-projects I scanned were not clearly any doc issues in them.

### 2020-03-07 Brainstorm Circle 3 Programming Planning Docs

(Circle 3 projects are software development projects, unlike Circle Docs projects, which are language design projects.)

It appears around 2010 I started off with programming Circle 3 with the intention of rigorous planning methodology and high quality technical documentation. Around the same time I switched employers. The new employer did not value my doing planning or documentation, just coding. In projects at home it seems I adopted that way of working. So planning docs and tech docs were no concern anymore. I focused on coding. I think I also stopped keeping an hour sheet at home. It was freeing. It felt too much like work logging the hours I spent at hobby projects. But the real motivation for the shift in way of working, seems to be that I cannot have 2 methodologies at the same time: one at home and another one at the office. That seems intrinsic to how my mind works.

So I have these near-perfect planning docs for Circle 3, while the execution of the projects was almost only coding, no planning, no documentation.

I don't think I want to reformulate the goals of Circle 3 programming projects, to exclude software design. It is not about making those planning docs good.

## Done

### 2020-04-18 Done Circle Language Spec Plan: Scope and Reword The Done Project Docs

* Brainstorm: Scope the Done projects?
  + I was already putting things out of scope, not just reformulating. I have done that for the Future projects, because putting it out of scope was easier than reformulating some of the difficult text. Maybe that rule does not hold up for reformulating the Done projects. I want to realize that the focus is on reformulation, not scoping. Only if it helps me get through the reformulations, I may want to also fine-tune the scoping in the planning docs.
  + So the same argument kind of applies. If I know it is out of scope, I can just move it without further reformulation.
  + Fortunately I am quite clear on what I put out of scope.
  + Q: Will all 'fundamental principles' be put out of scope?
  + Exp: Read some of the actual documentation.
  + A: Yes, 'fundamental principles' is out of scope with the current ideas I have now.
  + By the way: I saw '2. Concurrency' under '3. Operating System' in the Circle Docs. I couldn't find that content before. Found it.
* I tend to want to subdivide all the Done projects into groups, like I did the Future projects. (in the Other folder, not Circle Language Spec).
  + But I get kramps in my face.
  + It's hard, because it means processing many disparate pieces of information, which takes too much energy/strain for me.
  + Feels bad to leave a grouping/categorization half- finished.
  + Can I make this easier for myself? Dim the screen. Dark mode would have been nice, but don't have it on Windows 7. Take it slower. Worry less about (small) mistakes. Accept this will take a while. Forget about everything else?
* Done projects (now out of scope)
  + / 2008-03 02 Fundamental Principles Spec Part A Project Summary.docx
  + / 2008-03 03 Orient in First Four Fundamental Principles Project Summary.docx
  + / 2008-03 04 Computer Language Programmed Within Itself Spec Project Summary.docx
  + / 2008-03 05 Generic, No Generators Spec, Project Summary.docx
  + / 2008-04 02 Get Clearer View over Difficult Topics Project Summary.docx

### 2020-04-18 Done Circle Language Spec Planning Docs: Reword Main Project and Future Sub -Projects

* The aim is to use less definite, more open, language and to take out the personal 'I' form.
* I think a lot of documents do not contain as much prose as Circle Language Spec Strategy, so maybe things are doable after all. Also it does not drain my energy much. It is relaxing work to me. So I am not sure how much it matters, how long it takes.
* / Limitation: I choose to not reorganize/resubdivide the sub projects. I choose to just change the wording.
* Main Project
  + Mostly finished rewriting the content.
* Future Sub-Projects
  + Assignment Spec Update Ideas.md
  + / Automatic Containment Spec Plan.docx
    - Split up topics about Diagram Metrics from Automatic Containment: two topics. Those intertwine in those two documents.
    - Automatic Containment was going to be put out of scope, because it is so difficult and really in the way of explaining how to use these diagrams normally.
    - I said I would focus on reformulating, not on scoping, but I just don't want to reformulate this content, it is so unclear.
    - Would I simply move more to the 'out-of-scope' document? I doubt, because I moved 'Errors' and the 'Concept Construct' from out-of-scope to in-scope but postponed, because they 'felt' part of the language. Now the scoping rules change and I am wondering about how to organize things for a moment.
    - Looking at the folder subdivision of the planning docs, it does seem like it should be moved there. ~~And so does the concept construct. Moved back again.~~
  + Classes Spec Update Ideas.md
  + Commands Spec Update Ideas.md
  + Concept Construct Spec Project Summary.docx
    - Move out-of-scope.
  + Concepts as External Modules Spec Goal (2008-05) (postponed).docx
    - Move out-of-scope.
  + Concurrency Resolution Spec Project Summary.docx
    - Move out-of-scope.
    - 'Advanced Input/Output' is Concurrency Resolution?
    - There is overlap, but I'm not sure. If I read over the product list, I think I'd have to look into it deeper to determine if all of that Input/Output stuff is up for postponement.
    - I have looked at multiple sources of information, but cannot determine yet if the topics mentioned under the Input Output section of the Products List are in scope or out of scope, due to the concurrency resolution's being in-scope and out-of-scope.
    - / I feel part of the TODO products are already done.
    - / I feel 'normal' parameter topic are intermixed with concurrency resolution / automatic execution order too much?
    - Or is it to shed new light on these topics in the area of automatic execution order?
    - / Alternative: Split apart in two: The parts / product list items, that I know are about concurrency resolution / automatic execution order would be put out of scope and then parts I am not sure about, would stay in in-scope with some comment shedding light on that doubt.
    - Exp: Read over a product list in the Future Sub-Project document "Input Output Spec Project Summary.docx".
    - Hyp: All the topics under Input / Output inside the main "Circle Language Spec Product List.docx" are not trivial parameter topics, but more a small ramp of parameter topics leading towards the automatic execution order concept.
    - / Hyp: But the Integration of Parameter Input/Output Concepts do seem already done topics.
    - Hyp: But may fall under the same umbrella: now put into the light of automatic execution order.
    - Parameters and input/output concepts entangle. The proposed product list would aim to disentangle those topics and explain their precise relationship.
    - I had a brainstorm. I put that in the Future Sub-Project doc in the out of scope folder.
  + Diagram Metrics Ideas.md
  + Diagrams, Coding Principles & Coding Concepts Plan (old).docx
    - At first glance, this seems to have the same scope as the whole project Circle Language Spec.
    - Maybe it can be thrown away (or archived), because it's already described by newer documents.
  + Execution Control Spec Update Ideas.md
  + Globality Spec Update Ideas.md
  + Objects Multiplicity Spec Ideas.md
  + Objects Spec Update Idea.md
  + Parameters Spec Update Ideas.md
  + Relations Spec Update Ideas.md
  + Static Spec Idea.md
    - The second half is an idea, that is explanatory on some of my ideas about static. But also it uses a concept I want to put out of scope: Code = Data. I want to save such concepts for 'Circle Language JJ's Construct Proposals' or something.
    - I would not want to remove it, if I look at that it explains how I see 'static' in a broader view.
    - But to understand my own doubts about the different ways to see the concept of 'static' that idea description explains a lot and otherwise I might think: where did that idea go and how does it work?
    - I feel that this concept of static might have a place in the general descriptions, but to apply this to the concept of Code = Data, though interesting to me, might not have to be part of that, because it may confuse and alienate the reader, who might be more familiar with more regular implementations of the concept.
  + System Objects Spec Update Ideas.md
  + Text Code Spec Project Summary.docx
    - Out of scope
    - But change the main project description too.

### 2020-04-18 Done Circle Language Spec Planning Docs: Format the Project Summaries

* Change formatting in bulk (of Done Projects / Project Summaries)
  + Change fonts and layout in bulk first.
    - All normal text Calibri 11.
    - Heading 2:
      * Use heading 2 for e.g. 'Goal' and 'Date & Time'.
      * Heading 2 Calibri 10 bold, 9pt before, 9pt after
      * Instead of 'Dates' say 'Date & Time'
      * Americanish heading case usage
    - Sub-title:
      * Author and location Calibri 10, italic, 0.5 cm indented
      * No 'date' subtitle, since it is implied by the content of heading 1
      * Make spacing uniform.
    - Indent of normal text is not consistent among documents.
    - Heading 1:
      * Heading 1 month in separate line
      * Heading 1 no comma's at the end of the lines
      * Shorter heading 1
      * Heading 1 Calibri
    - Maybe double-check the formatting afterwards by opening all documents on top of each other, closing them one by one, to see if all is uniform.
    - Forgot the Done projects that have their own folder.
      * > They use different templates, so this formatting and making consisntent, probably does not apply to those.
    - Don't Future Sub-Projects also have documents in that 'project summary' format?
      * Alternative: format those too.
      * Alternative: Go look for more project summaries in the Circle Language Spec Plan folders.
      * Alternative: Don't do it.

### 2020-04-15 Done Circle Language Spec Planning Docs

* I finished 'Circle Language Spec Strategy'.
* 'Circle Language Spec Product List' seems finished.
* The word 'Legacy' is in there, which I tried to avoid.
  + Integration was not the best word, it seemed.
  + 'Inherited' is too ambiguous a term.
  + It is because other languages have those concepts?
  + Oh, wait, it is my own subdivision.
  + Maybe the word Legacy is ok there, because there is only the danger of putting down my own work, not others'.
  + It seems like it could be both.
  + 'Existing' is a little ambiguous too.
  + Why was integrate such a bad word according to my brother?
  + Synonyms?
  + I am going for 'integrate'.
* 'Circle Language Spec Steps & Time Planning' should be next.
  + Yeah, has definite language, that might need more wiggle room.
  + Sometimes I don't even notice it, because I am so used to try and gain a sense of control over the situation, that I just speak in definites.
  + Resolute language is solved.
  + 'Overview for Progress Monitoring' is not the same list as the scored and prioritized work items above it.
  + Why is there even a separate list for 'Progress Monitoring'? It seems handy for quick overview, but why is the main list not quickly giving that overview then? Improve the main list instead and remove the 'Overview for Progress Monitoring'? Because it might just not be handy to have two things.
  + Inheritance is already finished.
    - Do I update that now? Or do I see that as replanning that should be done later? Don't know. It just looks inconsistent this way.
* Done Circle Language Spec Ideas.
  + The wording is in rougher format, but it is not very long, so should be doable.
  + It may have out-of-scope content.
  + Maybe read over again. Second time around it still seems kind of resolute.

### 2020-04-13 Done Circle Language Spec Planning Docs

* I made a slight beginning with a next phase of scoping the project. But I want to turn back.
* Check if I can check this in.
* Do reformulations while maintaining the current scoping.
* This is a lot of work. I am not even sure if I can do it.
* It being forbidden to use the word 'I' and to be afraid to come off cocky… those are very strict rules to set for myself. Maybe too strict. I have trouble with this. Time may be better spent on something else.
* It's weird that if you want to make a project public property, it is strange to have the word 'I' in a project definition. In notes, maybe, but in central project definition it may be weird… But changing this just conflicts with my lack of energy.
* In my efforts to speak in a non-personal tense, I sometimes switch to the 'you' form and then it just sounds like I can't even keep the terms 'I' and 'you' apart… maybe I am over-conscientious and insecure here. 'You' is fine if you explain how one might experience something.
* I read some articles over personal and impersonal forms of language like that.

### 2020-04-09 Done Explore (Content) Search Options

* Exp: Visual Studio Find in Files
* Obs~ Some paths are too long…
* The file had a path of 260, which I think is the max for Windows 7, but some API's use 255 as a max.
* Exp: Shorten to 255. Find in Files again
* Obs~ Error is gone.
* Exp: Get rid of an intermediate folder to shorten the path and still keep descriptive names.
* Obs~ Visual Studio Find in Files will not search doc contents.
* Hyp: Windows 7 File Explorer will not find whole words. For some things that's relevant for other things it is not. (I thought I saw it).
* Exp: search "\*.doc"
* Obs: Now it does not match "\*.docx".
* Hyp: I thought I saw that some times.
* Exp: Windows 7 File Explorer. "D:\Source\JJs Software\Project Docs\Circle Language Spec Plan". Search "content:Joost".
* Obs~ It shows 2 files, if I open them (docx's) and search for Joost in Microsoft Word, I get no result. Odd.
* Hyp: File properties?

### 2020-04-01 Done Circle Language Spec Planning Docs

* Circle Language Specs Done projects:
  + It is a lot of content. It is not practical for me to go into detail about it now. It is only the past plans, not the future, so less important.
* Details:
  + Get rid of content about 'studying'?
  + Command as a Concept Spec Plan seems a super project but later turns out not to be.
    - Actually, it is a parent project.
  + Done project "Document Internet as a Single Computer" is out-of-scope…
    - Lots of fundamental principles may become out-of-scope of the Circle Language Specs Project and might become part of a separate piece of documentation Circle Language Broader View or something.
    - Not sure if right now I want to dump it in a Done folder with all these many projects in it.
    - Does it matter? I am trying to isolate just Circle Language Spec from Other / anything else.

### 2020-04-01 Done Circle Language Spec Planning Docs

* Empty project folders:
  + I could evaluate whether those empty project docs folders are needed.
  + To me it seems odd now, that 'Errors' is put out of scope.
  + I think I want to move the topics 'Errors' and 'Concept Construct' from the Out-of-Scope document to the Circle Language Spec Planning docs.
  + The 'Out-of-Scope' document os currently not just postponed items of the Circle Language Spec, but more than that: not even considered part of the Circle Language Spec proect at all anymore.
  + It is still not a hard rule to be set. But putting Errors and Concepts out of view, makes it sort of not the same project for the sake of Concepts and putting my head into the sand when it is about Errors. If I have ideas about these things, they do belong in the project I think. I have a hard time thinking them away.
* Formatting:
  + Phase-by-phase.
    - Background black.
    - Name spelling JJ van Zon.
    - No abbreviations in folder name and file name.
    - Rename 'Document' to 'Spec'?
    - Suffix with 'Plan'.
    - Do the above for the Current and Future Projects
    - 'Project' => 'Plan'
    - Leave out the word 'Plan' if obvious.
    - Headings 'Circle Language Spec' + similar to folder and file name.
    - 'Computer Language' => 'Circle Language'
    - 'Articles' => 'Spec'
    - No sub folders, just files?
      * Some sub-projects contain many files.
      * Flattening it out might make a big list.
      * Keeping some folders but have other as loose files, makes you lose that time-line feeling.
      * Too much doubt -> Postpone.
    - Maybe prefix all with Circle Language Spec Plan. Then simplify the rest of the title, because Plan is already implied.
      * Getting path length problems. Collapsing sub-folders with only one file after all.
    - Not sure if that prefixing looks so great.
      * It looks cluttered. And I cannot apply it consistently, because of path length problems. Branch. Try without prefixes.
      * 'Spec Plan' somewhere in there looked ok.
      * My doubts are that if this doc is in the internet, the title means a lot, so why not have it be complete? It does already have that completeness somewhere in the URL, but…
      * Maybe let go of the toilet role principle and just call something 'Automatic Containment for Relations.doc'. Not 'Plan', not 'Spec' just lazy. Maybe it is ok.
      * My being better at systematics than words might be in the way. So that I don't easily decide what's clear enough.
    - Convert to docx without Compatibility Mode.
      * What use is that, if I want to convert it to MD instead?
      * Conversion to MD is not great if I use color coding it the docs.
    - Remove '& Copyright'
      * > Only found 1 occurrence: 'Circle Language Spec Ideas'.
    - Remove unnecessary title page white space and 'version XXXX-XX' mentioning.
    - Make main heading and such not take up so much space.
    - Month in the headings, so it is clear that the fact that it is a time period is leading.
      * In the front or the back of the sub-project name?
      * In the file names too in case they have a folder?
      * ~~Months in headings: not entirely convinced about the difference of the order where the month ends up between 'Project Plans' and 'Project Summaries'.~~
    - 'TODO' => 'Notes'? > Cannot find it.
    - Set proofing language to English US. > I don't see the problem anymore. Maybe the conversion to docx fixed it.
    - First pages layout
    - Page header and footer
      * I am good with no page headers and footers.
    - File properties (author and such)
      * If they are odd. Not that odd 🡪 Leave it there.
      * Still have to do Done projects.
    - Update lists of contents
    - Legend:
      * Brainstorm: I might keep the legend as it is. It may be more work to check which colors are used where and to change it? Maybe not, maybe that would be the right way to go.
      * 'Legend' => 'Legend of Symbols and Markings'?
      * Use simpler color coding.
      * There is ambiguity between coloring of back then and now.
        + Brown meant I think postponed (indefinitely). Some share of brown even meant 'part done, part postponed'. Now brown means do not do. (And part done, part postponed is orange.)
        + Light grey used to mean do not do. Now it means done.
      * Normalize the legends.
      * Make it 1 central document
      * This document has a legend right inside it: Concepts as External Modules Spec Goal (2008-05) (postponed).docx
    - Font Calibri
      * Just the normal font, not the headings.
    - / Headings do not have colors.
      * Are not going to work for me anyway, with the low brightness on my screen.
      * It starts being not so functional anymore, the changes.
* I somehow don't trust this is all there's to it about Circle Language Spec planning docs. Look over the state of it. It *would* be fun to move on to a next topic and have something finished. But somehow I don't believe it. > It is. I lean towards the actual language spec rather than the planning, now.

### 2020-04-01 Done Circle Language Spec Planning Docs

* Circle Language Spec Products doc: Move postponed work from Done section to the Postponed section.
* The document "Circle 3 Excluded Requirements" has topics that might be interesting for the Circle Language Spec project.
  + Was at: Round Up looking for things to add/move from Circle 3 Programming to Circle Language Spec.
* Circle 3 Programming, Preliminary Designs:
  + Yes, definitely quite some useful texts in that document, that belong in the Circle Language Spec project.
  + The texts seem to belong in the actual Circle Language Spec docs, not its planning docs.
  + In the past I made effort to dump even unfinished ideas right inside the docs.
  + I had doubts about it, since it would litter the docs with unfinished, lower quality material.
  + But I remember doing it, because otherwise loose ideas would be spread over numerous sub-project documentation and would get out of view.
  + Do I move these texts to the appropriate spot in the Circle Docs now?
  + Do I also move ideas from Sub-Projects there? Maybe those are too short to matter. And not really loose texts, but goals. Somewhere in the middle. So maybe I should copy/move some texts to the loose idea boxes of Circle Language Spec.
  + I'm staring at 'Concepts' now. But Concepts is out-of-scope. Very out-of-scope. Does it matter? Any content about it is to be dumped into the appropriate spot in the documentation.
  + Object Order: Some of it is in Data Concepts. But I fundamentally need it in the Circle language. It's not just list order. It's more fundamental. It can be command execution order, that is dependent on it. I just don't know where it belongs in the chapters. Maybe just its own chapter I was making a separation between coding concepts and data concepts once. Now most coding concepts are just part of the programming language and most data concepts are not. Just the separation is not as precisely clear as that.
* Circle 3 Programming, Requirements:
  + Has technical design requirements.
  + I could look at them, take them out, compare them to the Circle Docs requirements, to see if they are in there or have a place in there.
  + Nah.
* Concepts construct:
  + I am missing writing the Concepts construct documentation from the planning docs. I only see it in the Circle 3 Programming, Excluded Requirements.
* Lower contents:
  + The idea of lower contents is described in project docs not in Circle Docs Planning, but in '1. Circle 3 Programming' planning.
  + You can also find some texts about it here: Circle 3, Lower Contents, TODO.doc

### 2020-03-22 Done Project Names

* Inspecting the sub-projects just to find whether documentation was of any concern in those projects, might be too intense for me right now.
* The question I was trying to answer with that was: Is it accurate to call the super-project 'Circle 3 Programming'?
* The reason for calling it that, is to make it clearer what the project entains, separating it better from the super-project with the name 'Circle Docs', so that there is a clear distinction that one is about programming and the other is about documentation.
* But from the top of my head I kind of already know that the focus of those Circle 3 projects was programming, not documentation.
* I just want clarity on the distinction between projects Circle Docs and Circle 3 Programming, but giving it a clearly distinctive name.

### 2020-03-22 Done Organize Planning Docs

* I moved around folders, for a preliminary split up between Circle Docs and Circle 3 Programming projects.
* I could change titles of projects inside the doc content too.
  + I am unsure whether I want to call the projects 'Circle Docs'. Maybe 'Circle Language Specification'.
  + I do want to go for the name 'Circle' as opposed to 'New Computer Language'.
    - I don't mind that this makes my documentation stick to a name that in theory might later change. It probably will not change at all.
  + But Circle Docs is too general, I think. It should be Circle Language Specification.
  + I don't care for the abbreviation 'Spec'. I am not a fan of abbreviation and I don’t think it makes it much more concise or clear.
  + Also: I am hitting my limit here. I'm tired and getting all sorts of symptoms.
  + Circle Language Design is also an option. 'Specification' may raise expectations about finishedness.
  + Circle Language Design Planning
  + Circle Language Specification
  + 'Specification': suggests finishedness, but does it? CSS is all sorts unfinished modules.
  + Leaving out 'Specification' or 'Design': Makes distinction with Circle 3 Programming hard to see.
  + The word 'Circle' should be in it.
  + The word 'Language' at least sheds light a bit on what it actually is.
  + But Circle Language Specification Plan is just a long name.
  + But 'New Computer Language Functional Design' was too, so that is not an argument?
  + 'Spec': Is an abbreviation. I generally dislike those, but I think in this case it is appropriate. It is adopted as a word by the community.
* I could evaluate whether those empty project docs folders are needed.
  + The 'update … articles' sub-projects
    - Defined as empty project doc folders: I see some of it back in the Circle Language Spec's Strategy doc, Project Steps and Time Planning, but not in the Products doc. Some redo's are defined, be it not in Products doc. It seems the reason for redoing is not always stated. I think I should make the list complete in all the planning docs where appropriate. Then I can get rid of the remaining empty sub-project folders.
    - Mentioned them in the Products doc now.
    - Removed the empty project doc folders.
    - Look at Circle Language Spec Strategy for things to put in Circle Language Spec Products.
    - Look at Circle Language Spec Project Steps & Time Planning for things to put in Circle Language Spec Products.
      * There is a lot there that specifies the reasons to change the articles.
    - Consider that some elaborations in the Circle Language Spec Products document might belong elsewhere.
      * Do they belong in Circle Language Spec Strategy?
      * Sort of collides with the Sub-Project folders idea. Maybe details belong in a sub-project folder and a general reference to it in the strategy doc.
      * Maybe go the other way: put sub-projects strategy in the main strategy doc and get rid of separate sub-projects. (My gut says: no, keep sub-project descriptions. That's what they are for: elaboration on a sub-project's scope.)
      * Decision: Rule: Any elaboration now in the Products planning doc, belongs in a sub-project document.
* Sub-Projects:
  + The documents could probably be shorter. Lots of those Project Summaries are not so useful template texts, not filled in. The notes at the bottom would do.
  + Then it is basically just loose ideas, that might have been given a too prominent place. Maybe put it elsewhere, if it is just unhelpful for visual overview, perhaps. > Some are more than that. I keep em this way.
* I like that I seem to build tolerance (back) for not exactly knowing where I am going with it, gradually shaping it, and just taking my time to make things more overviewable, regardless of whether someone might think it is time well spent or not. I myself just create more overview and understanding of the material that way.

### 2020-03-16 Done Circle 3 Requirements Docs

* I moved content from Circle 3 Requirements to New Computer Language Products doc.
* I could rename it to Circle 3 programming, rather than Circle 3 software development, because programming was all I did, not full blown software development cycles. Right? ('Programming' is a bit ambiguous too. It could mean program the dev environment or program using the new language. But I am OK with it.)
* Maybe check sub-project docs later to verify that I didn't do any documentation.

This is spreading my attention over too many different things. Is there a more practical approach?

This is too intense. I have to stop again.

### 2020-03-15 Done

I read over notes to know where I was, and mark some things of as 'done'.

This was too intense. I wonder if starting to change documentation will be too intense too or if I should stop now. Or if other activities or non-activities will be even more intense. I choose to stop for a while now. After a little over 20 minutes.

### 2020-03-08 Done Reading Circle 3 Requirements Docs

The requirement group 'Priority C: Classes' has 1 language design feature: <Diagram Notation Design> Static. So that is to be moved to the language design project docs.

'Priority E: Integration' contains brainstorming instead of a list of items.

(I notice I get inspired to like implementation projects for Circle 3. I feel the enthusiasm in it. I somehow stopped working on it, though. Also it is not my goal right now. The goal is publish Circle language design eventually.)

Some of the content in 'Priority E: Integration' could be part of language design, at least diagram metrics design and automatic containment.

'Priority F: Large Amounts of Items': Spiraling could be part of diagram metrics documentation. And object order.

'Round-Up': Most are documentation issues, which in theory could be moved to the language design project instead. Except, they are 'technical design' documentation issues, which do not have a place in either the language design project or the circle 3 programming project, because 'technical design' I did not consider language design, because I would have called language design 'functional design'. 'Technical design' according to my views back then, would have be document how I implemented things in the programming of Circle 3, not how the language functionally works, but how Circle 3's .NET code works internally. However, I could see the topics up for 'technical design' as topic that also could use an update to the functional design. So I could consider those topics for extending the Circle language spec project's requirements. Then I could consider removing documentation issues from the Circle 3 programming project docs, because I wasn't going to do them anyway.

I ran over all the content of Circle 3 Requirements and above are the conclusions of what to possibly do.

### 2020-03-07 Done No Planning or Docs Back Then

Circle 3 Strategy is pretty much done.

Circle 3 Requirements: change coloring and formatting.

That does not take away I want to split topics in these planning docs between language design one one end and programming at the other.

### 2019-12-29 Done Brainstorm Scoping

* What do I do with things, that are out-of-scope? Do I just bluntly remove them from the documentation, or do I go through the trouble of parking the texts elsewhere?
* Would I rename 'Computer Language' to something else, admitting it is a programming language, and only expressing the hope that it would become a language to a user to, where constructs are simpler. Do I simply admit that these were my ambitions with the project, and if people claim arrogance, then let them?
* I am hoping at some point, the project docs get smaller… because these documents are huge and intimidating.
* Maybe I should just make 2 project folders eventually in the Project Docs repository: one for the new computer language and one for the rest, that are much like eachother, but one stripped down to computer language functional design topics, and the other in which to dump the rest: anything deemed out-of-scope of the entire new computer language topic. Those are different than topics out-of-scope because postponed, but still much to do with the new computer language. Maybe at first, even 'worse', I make 2 documents in each folder: One with topics that belong to the new computer language, and another document much like it, in which the rest is put, that I would want to leave out of it.
* I think a new concept to me, introduced in this new project is that: I do not need to do everything. Like this from "New Computer Language, Products.doc: "You have to be able to introduce new basic data structures and give them the nonagon symbol, and have different kinds of possible indexers, etcetera." I don't have to. I could do without. Ideas might be viable and interesting without all details being covered, without all proofs being given. I wanted to work out *everything* at some point. I also was a afraid, that if I didn't, people would not believe in the idea. Maybe I got over-ambitious, because I saw so much potential. I think I was able to work out a lot, but then I would get distracted by another project and then it turned out, I never got back to it. Scoping is a trick for that, when managing projects. Setting the boundaries and limitations of what the project would cover. I never wanted to do that back then. I wanted a framework in which everything would fit and then choose seemingly randomly what I would cover next. In one way I like the freedom of that. But on the other hand, it becomes a never ending story. I sometimes had the ambition of actually making *all* of it. I might have been able to create a playground in which I can go wild, but someone else would never want to cover all of that. Someone else would never take over your programming life, just a scoped programming project and then maybe. So I want to scope it. And lose the 'programming it out' part. And loose 'it is also a framework and an OS and any commonly used application'. It is actually quite hard for me to let go of that idea. I liked my playground back then. I wanted proof, that this could be used to realize software quicker, so one man can do what would have taken an army of programmers to do before. But I don't have that ambition anymore. Right now I just want to publically give away the programming language idea. I think I notice a lot of insecurities about people thinking it is a good idea or not. Maybe because I was trying to sell the idea, rather than just give it away? I get that I wanted a framework into which all of my ideas fit. I like some of the modularization of the concepts. But I do want to just cut away a few things. I think I am still trying to sell an idea, but then in a different way. I do not have the intention to sell it for cash, but I do want to not make it too ambitious, cover too much, so large in scope, that no one would pick it up anymore.
* The time planning document ("New Computer Language, Project Steps & Time Planning.doc") looks far more overviewable and less intimidating. It all seems so manageable there.
* The document with the list of products ("New Computer Language, Products.doc") is overwhelming, because each article written is mentioned separately and that means almost each paragraph of produced writing is mentioned separately. If I would just mention the basic outlines, this might be better. Earlier, back then, it may have helped me see what I did and see how much I wanted to do. But with the goal I have now, I think it loses its purpose, and simplicity of the planning docs is more important than rigorous tooling for detailed planning of my own work.

### 2020-02-23 Done Reading Circle 3 Strategy

An idea for today would be to read "Circle 3 Strategy". That document is supposed to be about software development, not language design. At least, that is the new goal I have with that document. Some things in it are relevant for the Circle Docs.

"Goal of the Language" is where it is part about the language design, not so much the software development. I might use/move this text to the Circle Docs project docs.

Was at "More Tips" processing things.

At what point am I going to be more rigorous in splitting off the Circle Docs project docs from the rest? Not yet, I think. It's still a mash up of both in the project docs I am reading now.

### 2020-02-20 Done

Today finished splitting time planning and projects step into in-scope and out-of-scope documents.

### 2020-02-16 Done Notes

Working on splitting time planning and projects step into in-scope and out-of-scope documents. (worked on it for 45 minutes this day.

### 2020-02-13 Done Notes

Working on New Computer Language, Products.docx:

I do not want to necessarily want to shorten the list of products any further. Even the list of Done work. Because some parts are part done and it would be easier for me, would I work on it, to have the same subdivision of the pieces TODO as the pieces that are done.

What I do might want to change is the rough order in phases of the stuff TODO.

I might just go over it a few times, reformulating.

I am splitting off parts of New Computer Language, Products.docx into a separate document with the out-of-scope things.

I want to go over the Postponed topics, to see what content can be moved to the 'out-of-scope' document.

Now I still want to weed out the 'Topics Roughly' moving things to the 'out-of-scope' document with the products.

Also the Strategy can be stripped of things 'out-of-scope'.

### 2020-01-13 Done Notes

I read and reformulated some texts from "New Computer Language, Strategy.doc". 2 hours or so. I am now too tired.

That document does not cover many things out of scope of language specification. It just briefly talks about programming experimental versions and licensing it and stuff, but little enough to keep it in there, were I to isolate this into a pure language specification writing project, which I intend it to.

### 2020-01-30 Done Notes

I read over New Computer Language, Strategy.doc and reformulated stuff.

I am cleaning up New Computer Language, Products.doc: simplified color coding, removed mentioning 'in a Diagram' and 'in Text Code' article variations. I might remove detail from done work, but keep it in the proposed work. May remove some 'musts' by 'mays'. Might add intro docs to calm the reader's nerves down, on the overwhelming amount of topics. Do I need to excuse myself for introducing topic names, without actually describing what it entails? Don't know. That description would *be* the product. I have a canundrum. I cannot describe the product without making the product, because the description is the product.

### 2020-01-04 Done Rough Plan

Rough plan:

* Remove detail from products doc.
* Split main project docs into 2: content about the diagrammatic programming language and content outside of that subject area.
* Or read some sub projects docs.

I had those plans with it, but did nothing about them this day.

### 2019-12-15 Done

* I read over the document "New Computer Language, Strategy.doc" in full and did some reformulations, also removing my never realized studying goals.

### 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.

### 2019-08-05 Done Brainstorm Restructuring Docs

The Circle project docs took a turn at some point in time. At one point it was mostly about documentation, then it became about both documentation and programming. But the project docs folders do not seem to be fully updated to that change. Maybe I can do that in the context of *this* project. First some more reorientation.

'Program Software System' now looks 'outdated', compared to the programming work described in 'Document Software System'.

I might actually move many of those topics from 'Future\Interesting Now' to 'Postponed'.

I also would want to put a cut into all the project docs and all the circle docs: this is the language and this is the rest.

So it gets isolated. In the past I wanted to put everything I did (and will ever do) with software development at home in a single system so general that I called it 'Software System'. Many docs are general and describe both that language + OS-like topics and applications. I might want to cut that in two: language and the rest. I might like to open source the language at one point and just leave the rest out of it.

I think I interwove these things maybe a little too much. I just liked to subdivide things into a single system of subdivision into which everything fitted. Also, the interweaving may have been stimulated by my wanting to combine this 'Creator' project with the 'Circle' language project. The 'Creator' project was about model-driven development, aspects and framework more than being a real computer language. I wanted to combine the two things into a single system, so that may have lead me to try and put everything into a single system. Now, I think I know that Circle is the computer language and you could program model-driven aspect oriented software with it, if it can provide the aspect construct. Really, I think it helps to not try and solve all problems at once.

### 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.