

NLRs

Complete Partially Complete Incomplete

NFR1: The words SHALL follow all the rules of Circular Gallifreyan (listed below)

NFR2: The consonant size SHALL appear proportional

FR1: Doubled consonants SHALL be optionally written with concentric circles

FR2: Vowels SHALL have a preference for being connected to a consonant by default

The vowel preference for being connected to a consonant SHALL be optional

FR3: The consonant circles SHALL be centered on the word circle

FR4: Lines coming from consonants or vowels SHOULD have a preference for being connected to those coming from other consonants or vowels

NFR3: The words SHALL be drawn on the screen quickly

FR5: The result SHOULD be exportable as an image

FR6: The program SHALL give an error message when an invalid character is input

The error message SHALL tell why the letter is invalid (number, special character, c...)

FR7: The program SHALL recognize digraphs and write them as single consonants

CG Rules:

Large circle for the word

Starting at 6:00 and moving counter-clockwise smaller circles are drawn around the perimeter of the word circle for each consonant and vowel

Vowels may be drawn on the preceding consonant circle (if any) instead of on the word circle

Several digraph consonants exist

There is no letter C, it should be written either as a K or an S depending on the sound it makes

Y is always written as a consonant regardless of whether it is a consonant or a vowel in context

Letter circles should be balanced around the word circle

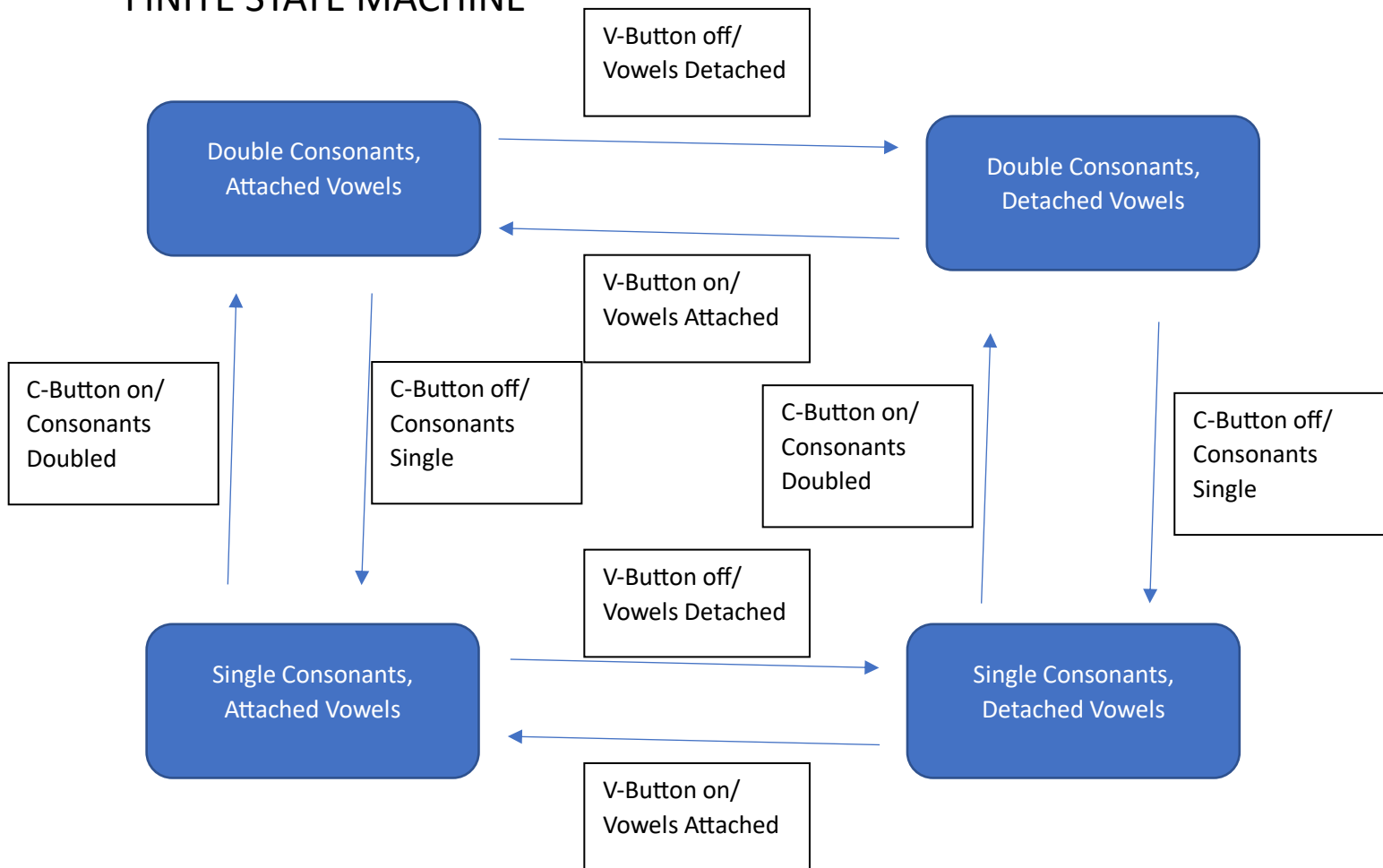
Letter lines should connect to other letters if possible

Letter lines should be straight

Letter lines should not cross over other letters that they do not connect to

Letter lines should not pass through consonant dots

FINITE STATE MACHINE



USE CASE DIAGRAM

