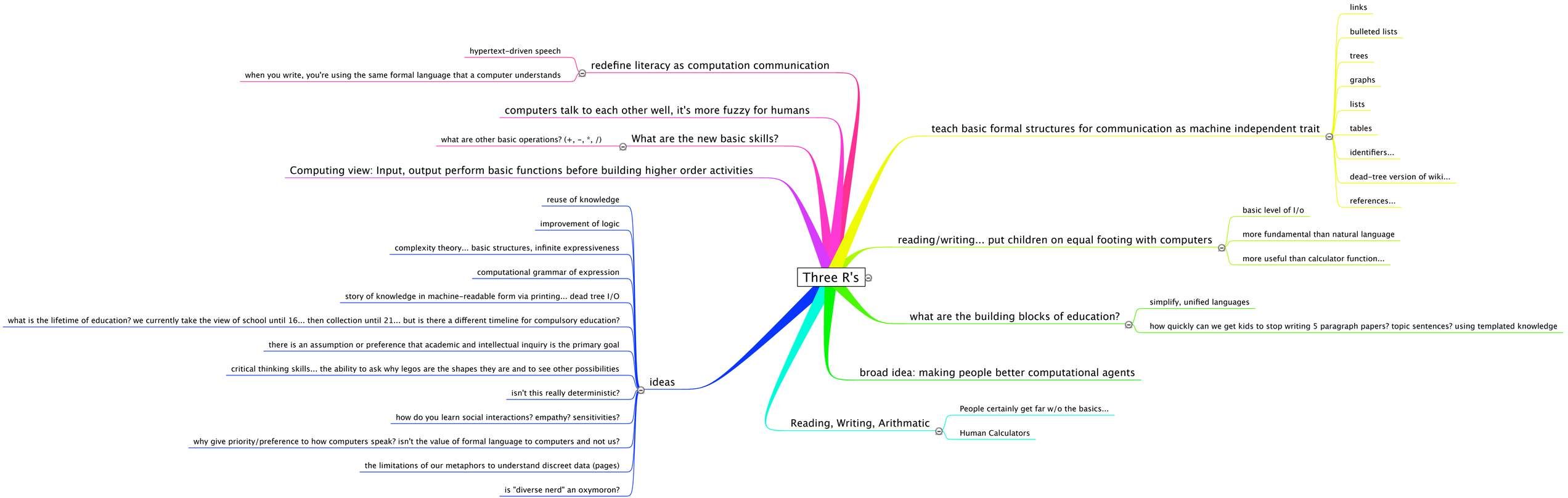
Three R's
redefine literacy as computation communication
hypertext-driven speech
when you write, you're using the same formal language that a computer understands
computers talk to each other well, it's more fuzzy for humans
What are the new basic skills?
what are other basic operations? (+, -, *, /)
Computing view: Input, output perform basic functions before building higher order activities
ideas
reuse of knowledge
improvement of logic
complexity theory... basic structures, infinite expressiveness
computational grammar of expression
story of knowledge in machine-readable form via printing... dead tree I/O
what is the lifetime of education? we currently take the view of school until 16... then collection until 21... but is there a different timeline for compulsory education?
there is an assumption or preference that academic and intellectual inquiry is the primary goal
critical thinking skills... the ability to ask why legos are the shapes they are and to see other possibilities
isn't this really deterministic?
how do you learn social interactions? empathy? sensitivities?
why give priority/preference to how computers speak? isn't the value of formal language to computers and not us?
the limitations of our metaphors to understand discreet data (pages)
is "diverse nerd" an oxymoron?
teach basic formal structures for communication as machine independent trait
links
bulleted lists
trees
graphs
lists
tables
identifiers...
dead-tree version of wiki...
references...
reading/writing... put children on equal footing with computers
basic level of I/o
more fundamental than natural language
more useful than calculator function...
what are the building blocks of education?
simplify, unified languages
how quickly can we get kids to stop writing 5 paragraph papers? topic sentences? using templated knowledge
broad idea: making people better computational agents
Reading, Writing, Arithmatic
People certainly get far w/o the basics...
Human Calculators