Proposal for an Animation

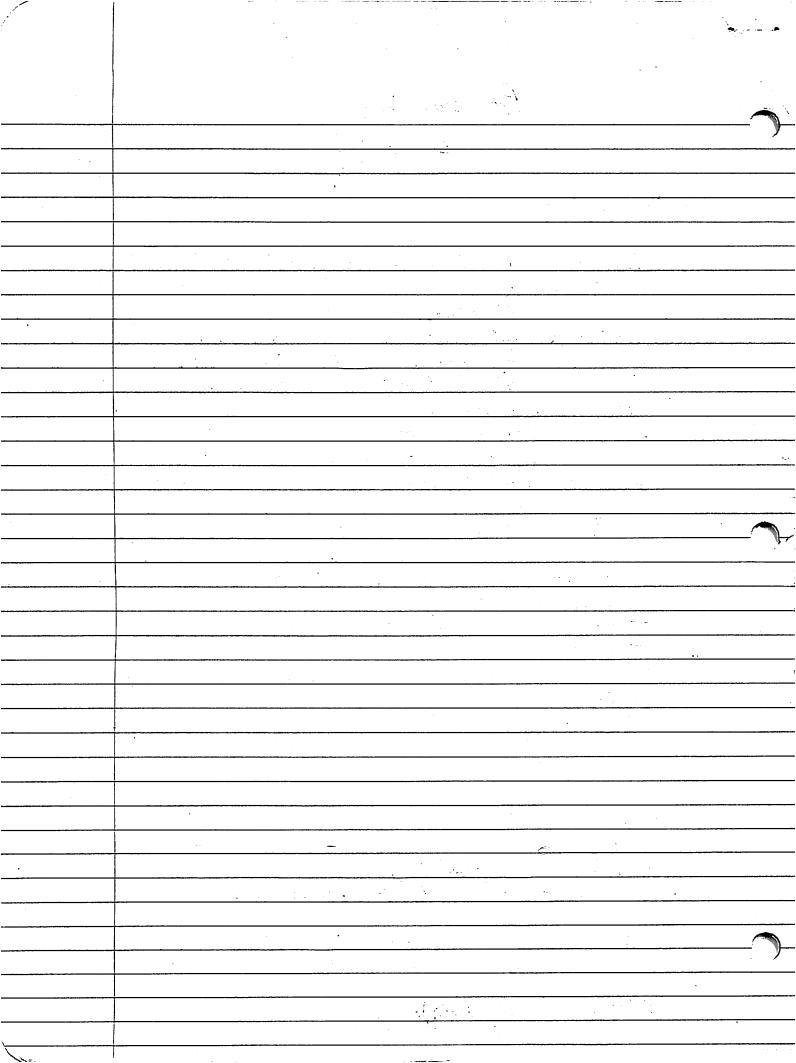
Language

Set Steinbay

7/12/38 Data Types ~O -> Felse T = 16E-67 == ±6E66 Point = X: Number Y: Number Color = I: Number R=Number H= Number or G= Number S: Number B: Nymber Item = Color: Color Center: Point Shape: Pomt, ooo on Group = nt : Item Terminal Nodes Screen + any number of Items or Groups any number
T = 1.0 PI = 3.1415926535... F = 0,0 any "color" from current matrix or consed up otherwise Frame - frame number Time - current time Functions F(Number) - Number sin cos log emp - atan r F(Number, Number) - Number + - * / 1 atan 2 & before until F(Number, Number, Number) -> Number

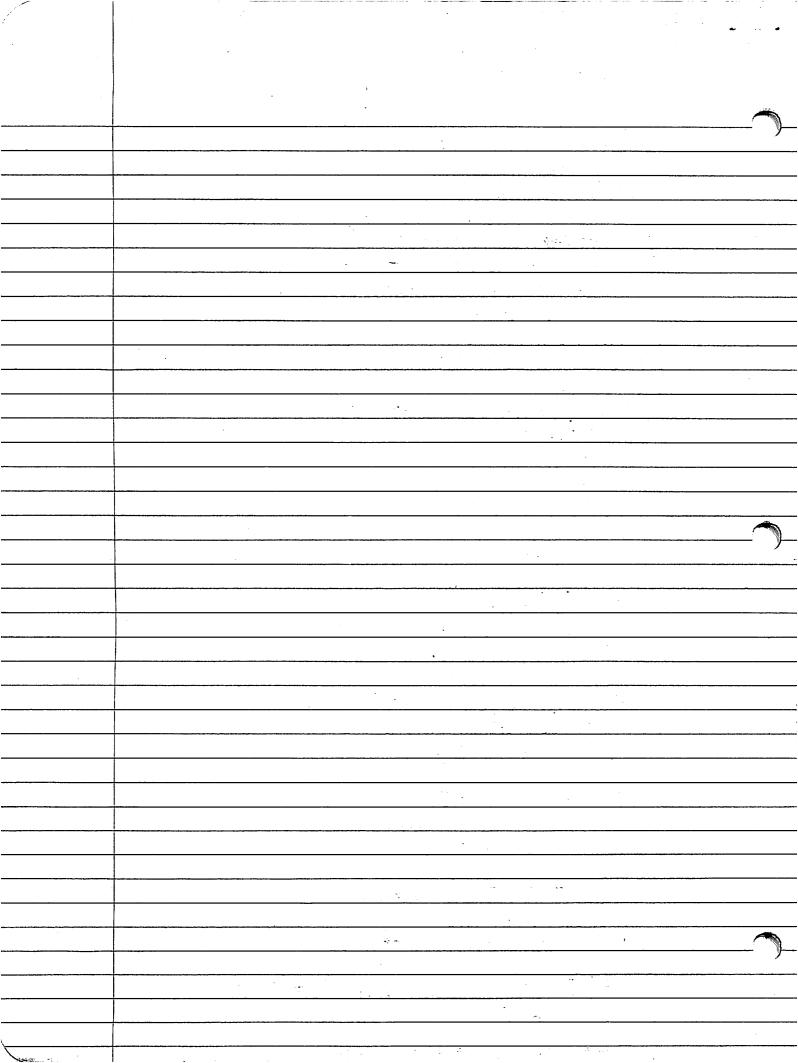
between except proportion

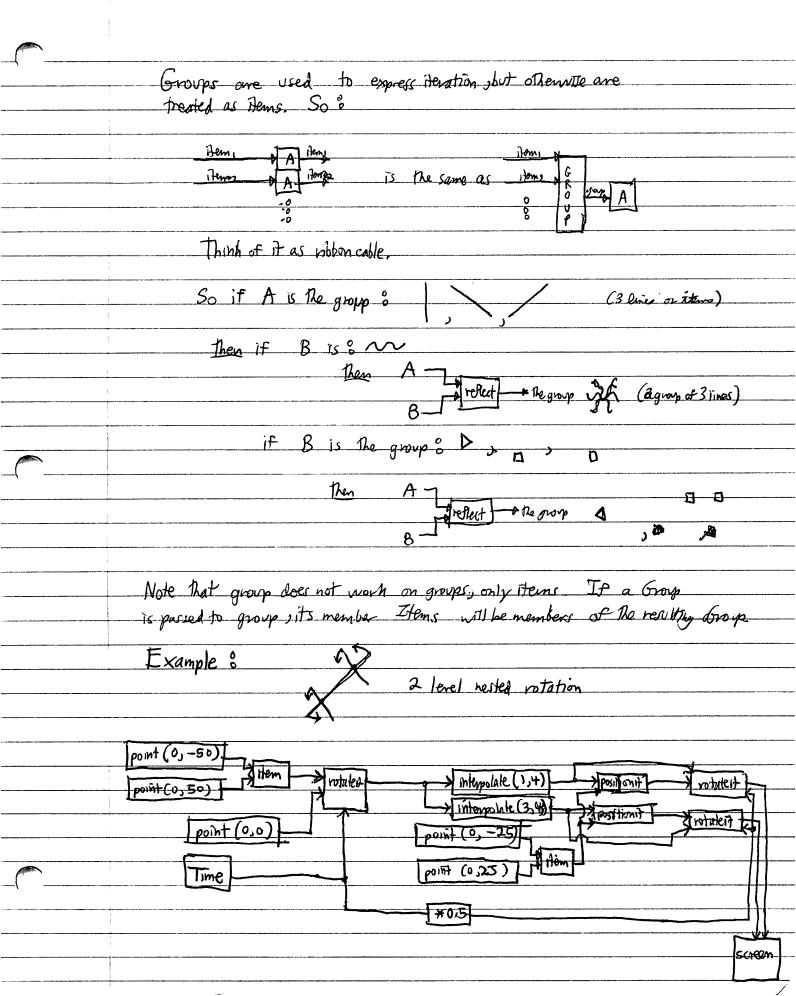
F(Number, Anything, Anything) Anything select

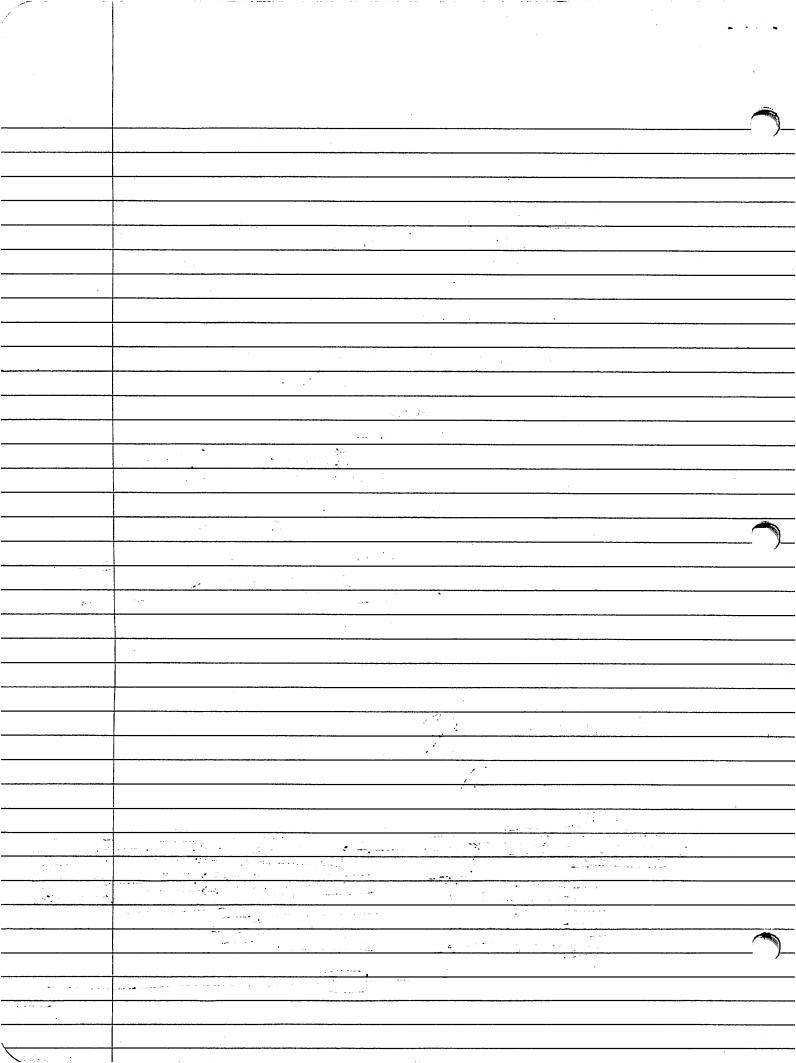


```
F (Number, Number) - Point
F (Point) - Number
F (Pomt) -> Point) -> Point
     midpoint reflect +
 F(Point, Point, Number) o Point
     rotate scale
 F (Point, oor) - Item
 F (Item, Number, Number) - Point
    Interpolate
  F(Item, Number) - Point
    point
  F(Ztem) - Point
    center
   F(Ifim) - Colon
   F(Item) -> Number
    apoints lengthit
  F (Item, Number) - Item
scale H1 delayit
   F (Ztem, Point, Number) - Item
  F (Item, Color) → Item
     colorit
   F (Item, Item) - Item
       merge reflect* average
  F (Item, Point) + Item
   F(Item) Item; 000) + Group
    F(Point, Point, ooo) - Group
   F(Item, Item, Number, Number) - Item
          they fillin
```

* second npoints (Item 2) = 2 only + or Group







point (0, 50)

point (0, 50)

point (0, 50)

point (0, 0)

Function Definition or User Defined Nodes

Any network can be saved as a node, presumably in some file. To facilitate the building of weful nodes, a theregare a special class of sources and sinks which may have anotherapy labels, which must not conflict with other labels.

Could be used in the above example. Thusly?

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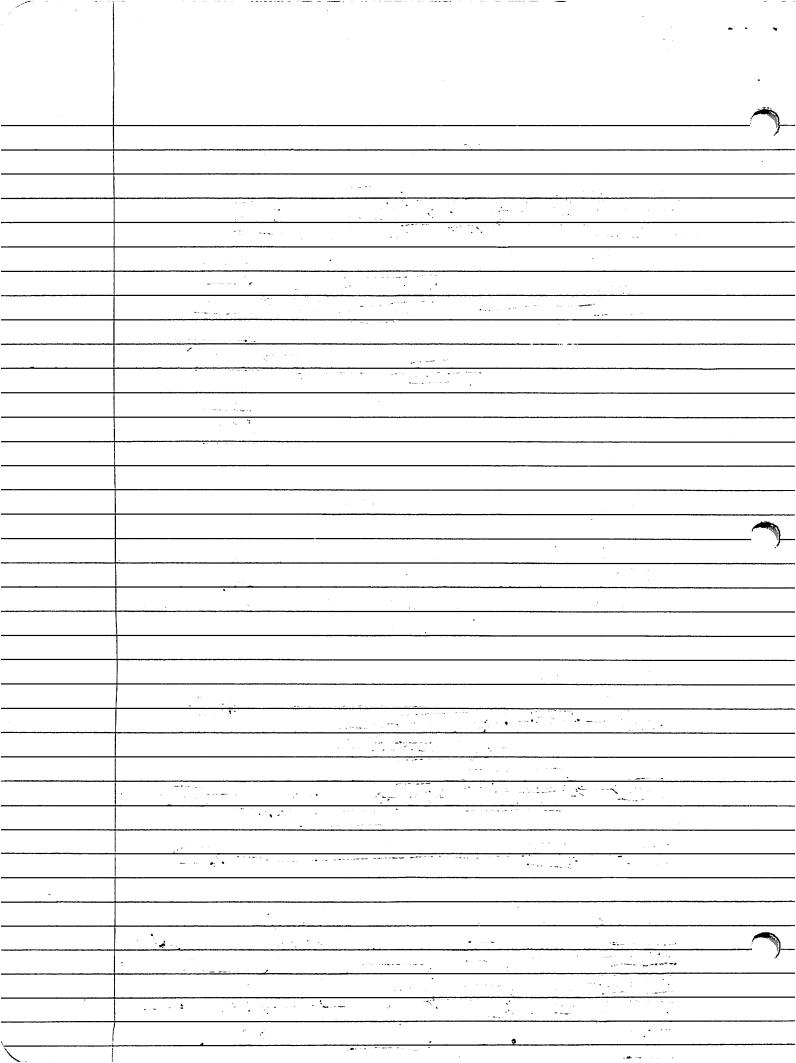
[2017 (0,-50)]

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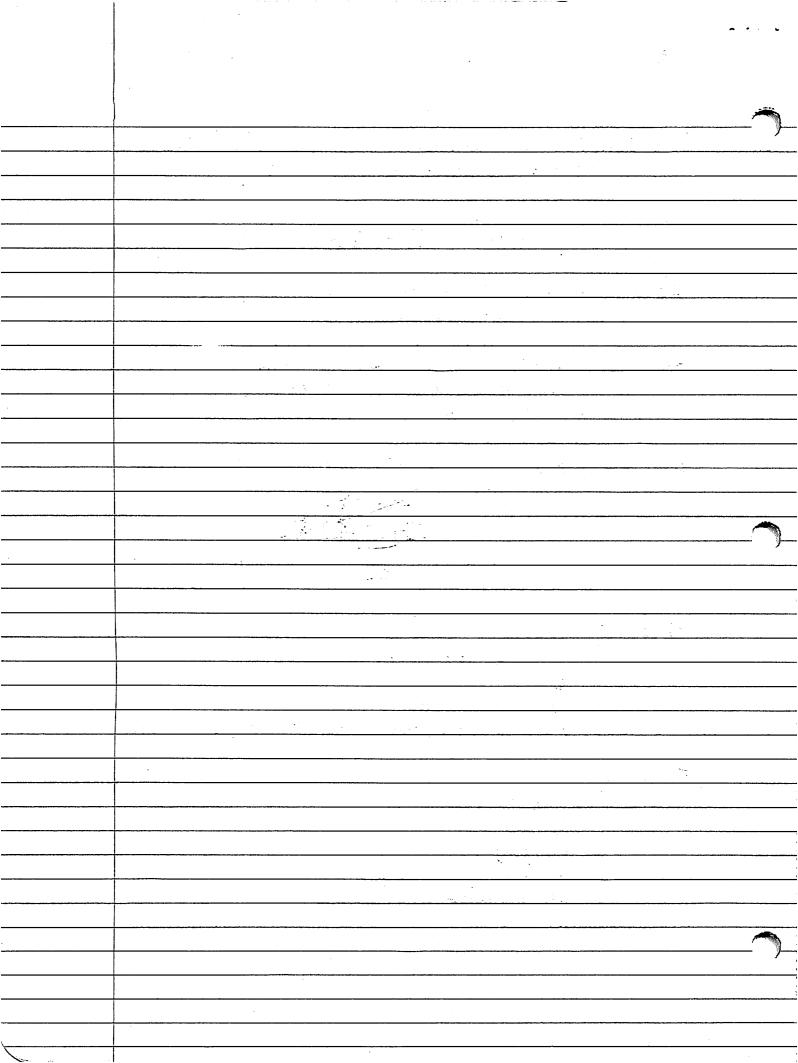
[2017 (0,-50)]

[2017 (0,-50)]

[201



	Notice that the center output of the user defined node it
	a group of twice the size or the center impart.
	User Interface
	User Interface
	1) Node menu o the 20 or so most popular nodes.
	1) Node menu o the 20 or so most popular nodes, builtin or user defined.
	2) Selector menu & whenever a line Is drawn from something;
	a menu of output selectors is offered I similarly
	for input alection
	2) Nada display a mobility 2-4 levels from in a stylead
	3) Node display o probably 2-4 levels doep, in a stylized faithin erg.
	tashion erg.
	₩ 5070. C do. A
	4) Editing functions ?
,	a) change node mone b) lint sunlinh
	c) create, delek node
	d) follow input, follow supports to more grand notwork
	5) Modes 8
	a) edit
	e) debyg
	d) draw
	e) color editor



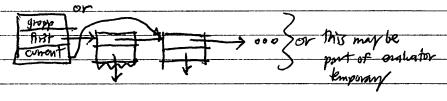
? Xerox mode? A bit map type could be added; perhaps,
only this some operation supported?
? How about a color matrix sink??
interpolate can be used to find mid-points or follow paths
fillin performs a standard knear key frame interpolation
average = fillin (.,., 1, 2)

Notes on Implementation

1) It should be obvious that colors are allocated as they are drawn, since they may change theely.

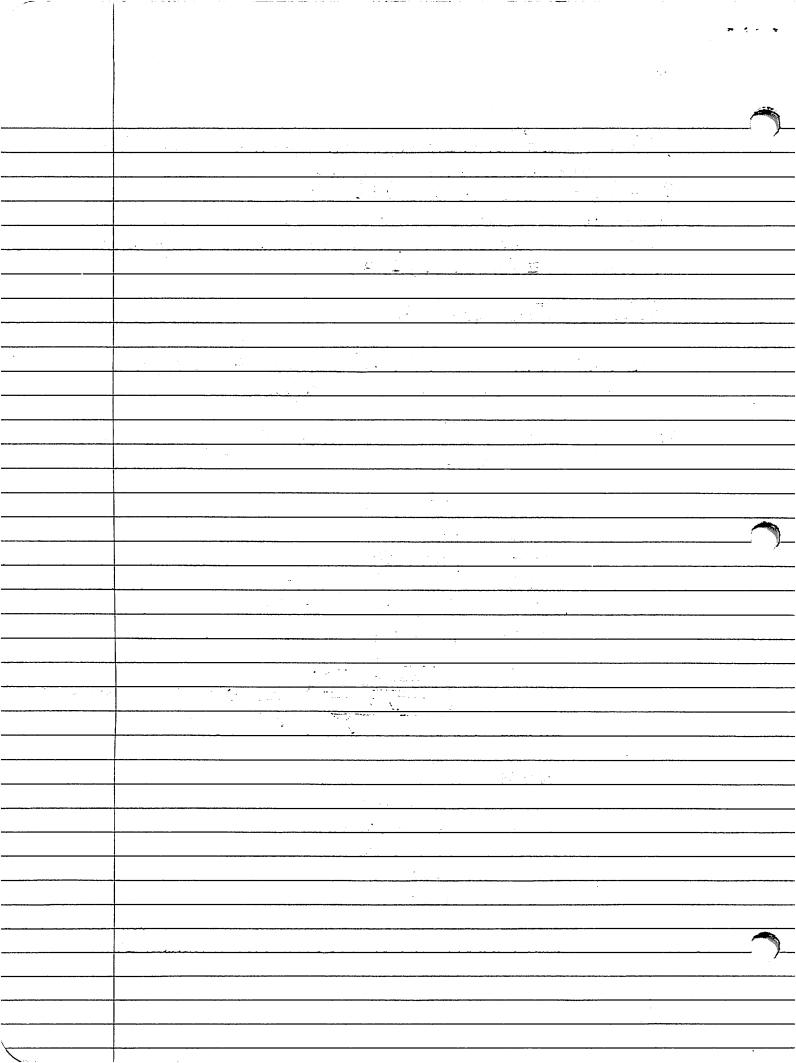
2) value structure type all points infloating point strff

Value float
Point float, float
Color float, float, float
Item Point, Color, foint-list
Group next pr, entity optr



Nodes

hext in node chain type, or place defined ptr to definition sources result





<u> </u>	3) The null group can be used to Indicate no change in drawing or
	De la h
	a blank drawing. Perhaps the corean can have a draw enable
	flag.
	Suppose we only want to hack the colors of Hem. Obviously
	each item on the screen could be accounted with a color state
	We need a a only shange color mode
	b) new dot mode so each Hang can get a nowcolor
	4) Most code should be in PL/I. It would be nice to
	fit it all in one budged, but I doubt it. We shall
	SEL.
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* *	

