# Dyslexia



### Project Guide: Prof. Nina Sabnani Project done by: Keerti Chowdhry 136340001



## Knowing Dyslexia

Common perceptions









There is an acute difficulty in decoding the written word. People suffering from Dyslexia are also often unable to comprehend what they just read.

Dyslexia is a neurological disorder, often with genetic origins.

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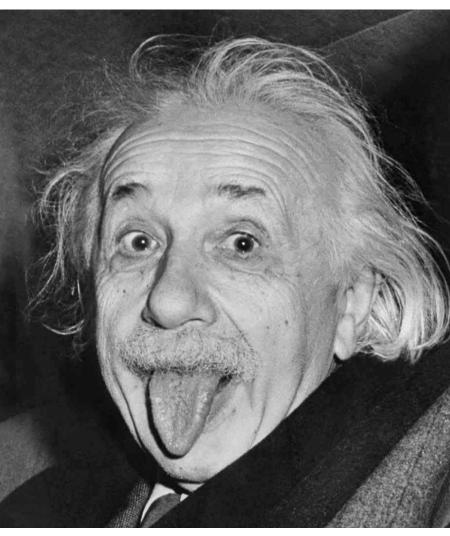
Findings from a research in MIT spearheaded by Gadi Geiger and Jerome Lettvin prove dyslexic people to have better peripheral vision than normal people.







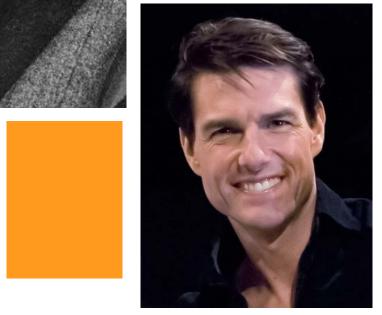


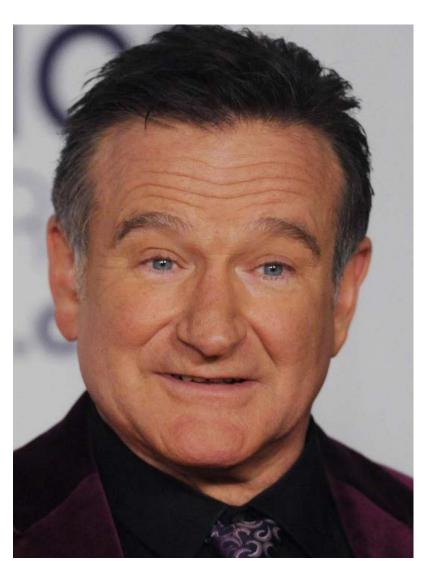
























child development center





Difficulty in comprehension

Many 'Specific' learning disabilities

Indian scenario





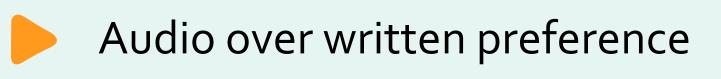


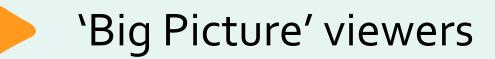






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Difficulty in comprehension

Many 'Specific' learning disabilities

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### Problem Areas

### Writing, forming letters

### Remembering spellings & comprehension

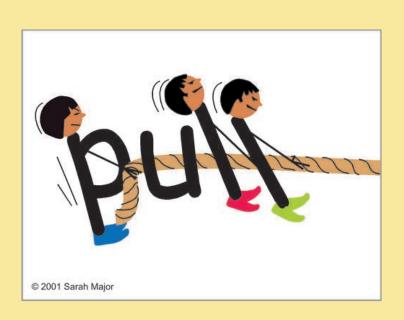
### Problem Areas

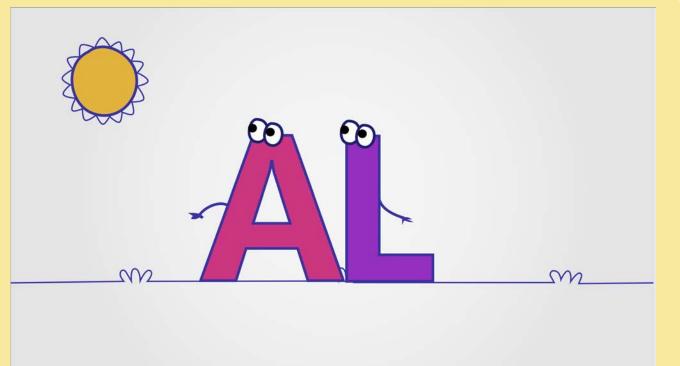
### Understanding poetry, indirect speech

### A writing app to train the fine motor skills of writing for children of 4-8 years.



### An animated disctionary that helps children remember spellings & meanings





### Concepts

### Animated poetry, proverbs with expressive typography & imagery





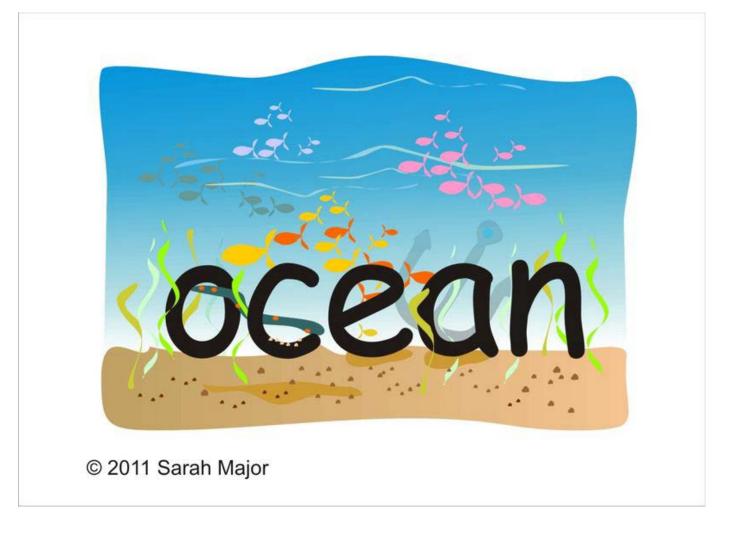
## Final Concept

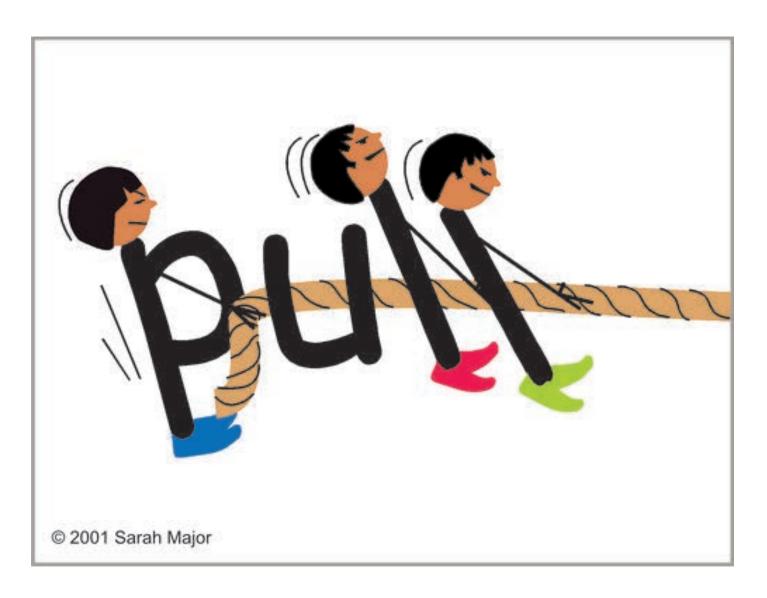


**Animated Dictionary** 

- Help with spelling as well as comprehension
- Integrate visual of spelling with meaning
- Use of both audio visual to aid memorability







### Popular Teaching Methods

### Phonics

	ually has the <u>shor</u>		ord, either at the be	Cana	
. Short vow	el a words			ARG F	0
ant	pan	wag	jam	cat	bad
ax	ran	flag	and	bat	dad
wax	van	cap	band	hat	has
can	gas	map	hand	pat	mad
fan	bag	nap	sand	rat	sad
man	tag	ham	lamp	sat	glass
2. Short vow	el e words			J.	
egg	bed	test	jet	hen	fell
leg	fed	vest	met	men	hell
sled	red	west	net	pen	sell
step	nest	web	pet	ten	well
tent	rest	get	wet	bell	smell
3. Short vow	vel i words			-21	
dig	tip	hid	crib	sit	fill
pig	pin	kid	fist	bit	hill
wig	sin	lid	list	fit	kill
dip	tin	bib	milk	hit	pill
hip	win	fib	silk	pit	will
lip	did	rib	swim	mitt	him

	Chart 12							
ch	in	<b>church</b>						
sh	in	<mark>sh</mark> ip, wi <mark>sh</mark>						
th	in	thick, with						
th	in	<b>th</b> is						
wh	in	whale						
wh	in	who						

	Chart 16										
kn	in	<mark>kn</mark> ee	ie	in	brown <b>ie</b>						
gn	in	<mark>gn</mark> at	ey	in	k <b>e</b> y						
a-	in	<b>a</b> sleep	ey	in	th <b>e</b> y						
a	in	b <mark>a</mark> nan <mark>a</mark>	ought	in	th <b>ought</b>						
0	in	son	aught	in	taught						
с	in	ra <mark>c</mark> e	igh	in	n <b>igh</b> t						
ea	in	h <mark>ea</mark> t	у	in	myth						
ea	in	h <mark>ea</mark> d	g	in	<mark>g</mark> iant						
ea	in	gr <mark>ea</mark> t	dge	in	fu <b>dge</b>						

### The Whole Word Method

CONCRETE IMAGE	SOUND OF THE WORD (have them say the word out loud)	CONCRETE VISUAL IMAGE OF THE WORD (have them print the word)
٢	'APPLE'	APPLE

		0	Game board			
can	come	yes	eat	all	saw	good
<u> </u>		so	will	have	am	what
find	go	who	too	get	he	now
holp	ic	but	at	did	into	like
help	IS	that	out	are	was	no
jump	look	Note Long				al



Multi sensory approach

## Initial Wireframes



Plain (noun) An extensive, relatively level area of land.





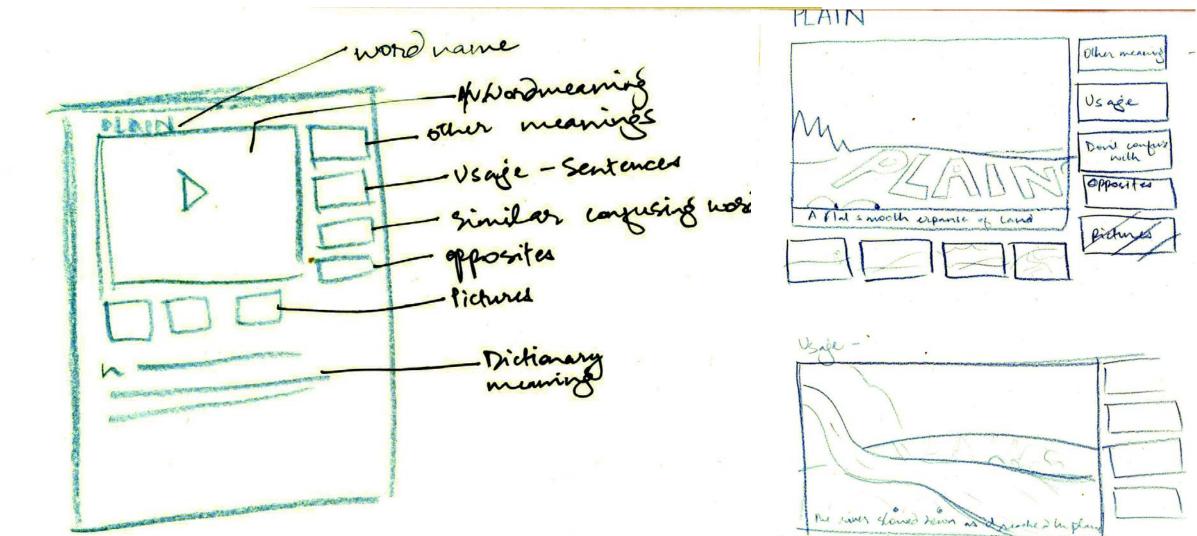


Mountain (noun) 1.

a natural upward projection of the earth's surface, higher and steeper than a hill and often having a rocky summit. (as modifier): mountain people, mountain scenery (in combination): a mountaintop 2.

a huge heap or mass: a mountain of papers 3.

anything of great quantity or size









clear or distinct to the eye or ear clear to the mind; evident, manifest, or obvious

conveying the meaning clearly and simply; easily understood plain talk. downright; sheer; utter; self-evident

free from ambiguity or evasion; candid; outspoken: the plain truth of the matter.

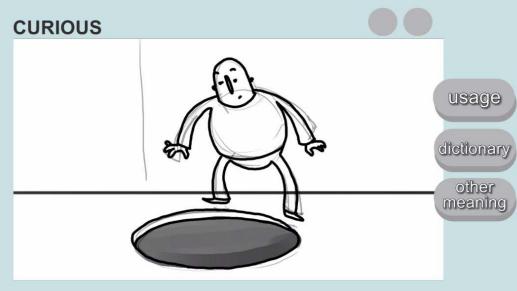
without special pretensions, superiority, elegance, etc.; ordinary: plain people. not beautiful; physically unattractive or undistinguished: a plain face.

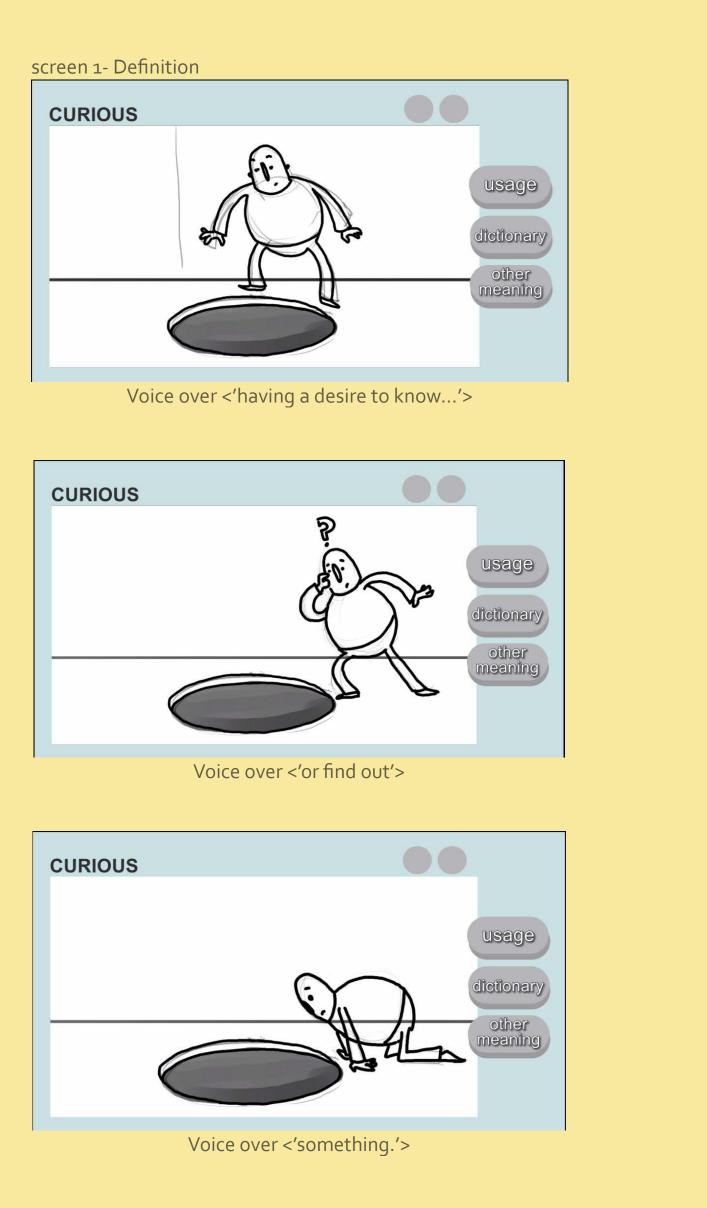


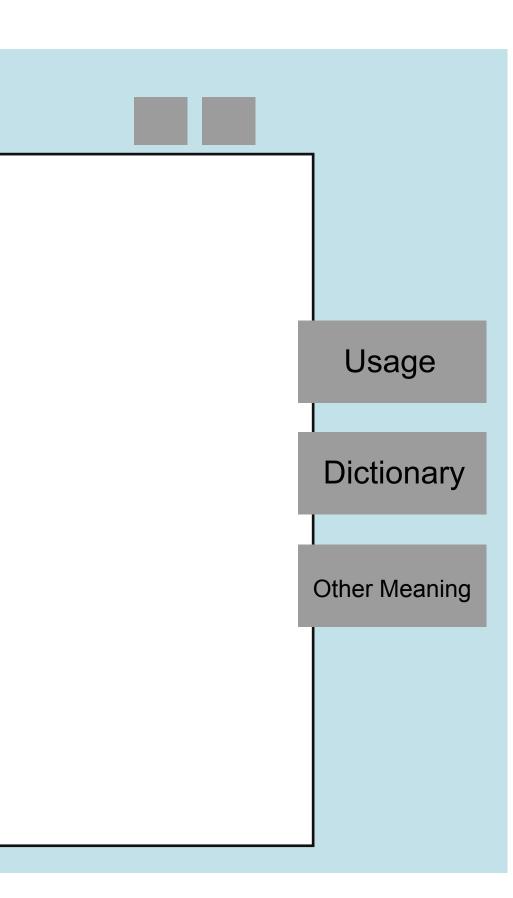
### Word Name

Simplified Definition with Visual



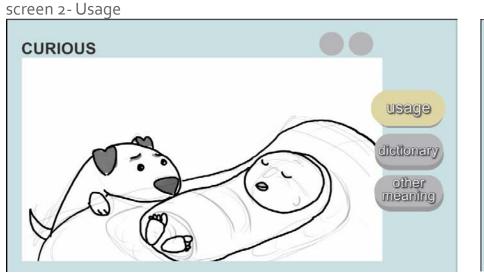




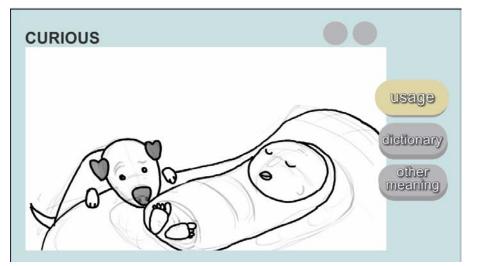




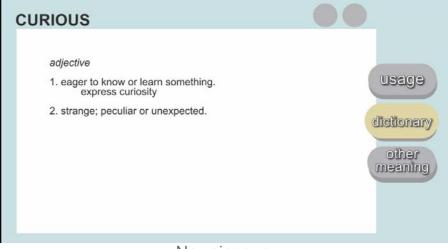
Voice over <'Curious'>



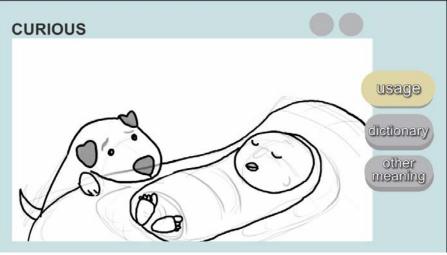
Voice over <'Timmy was'>



Voice over <'more about '>



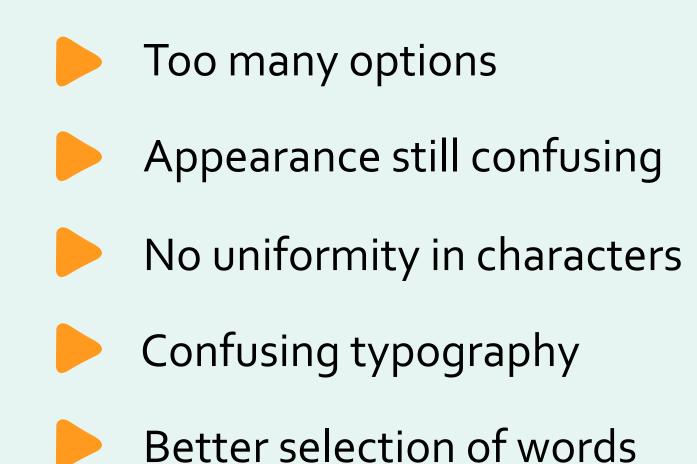
No voice over



Voice over <'Curious to know'>



Voice over <'the baby'>



## Word Selection: Dolch

The Dolch word list is a list of frequently used English words compiled by Edward William Dolch, a major proponent of the "whole-word" method of beginning reading instruction.

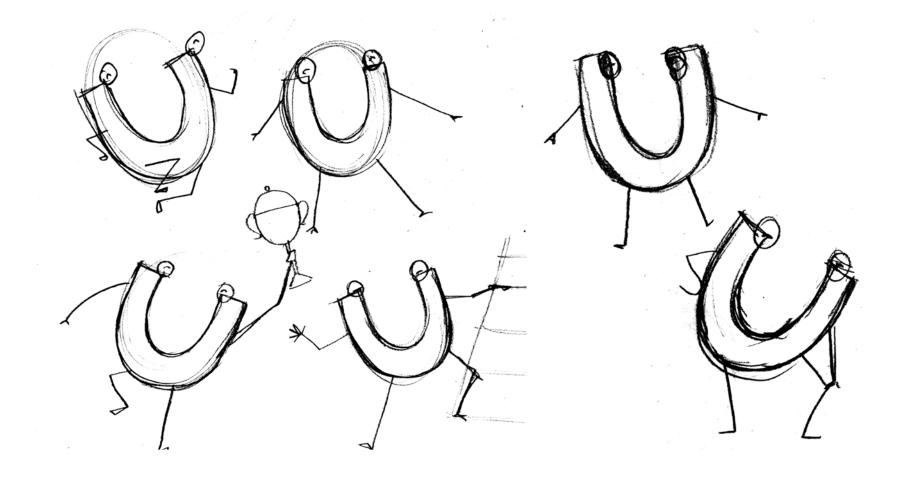
Dolch words, or sight words, provide an excellent base for reading at an early age. They are often called sight words because some of them can't be sounded out, and need to be learned by sight.

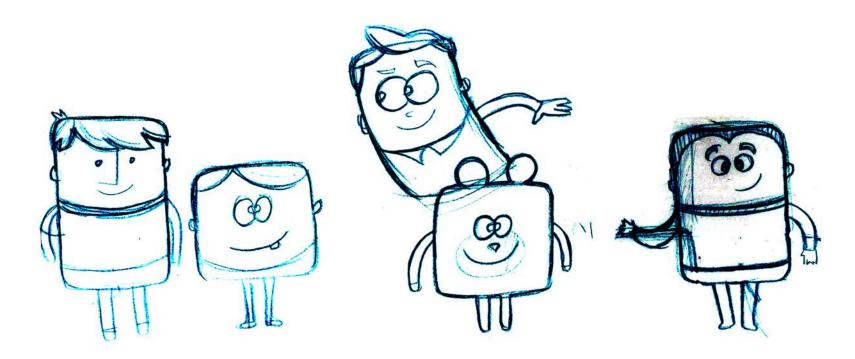
### 2nd Grade:

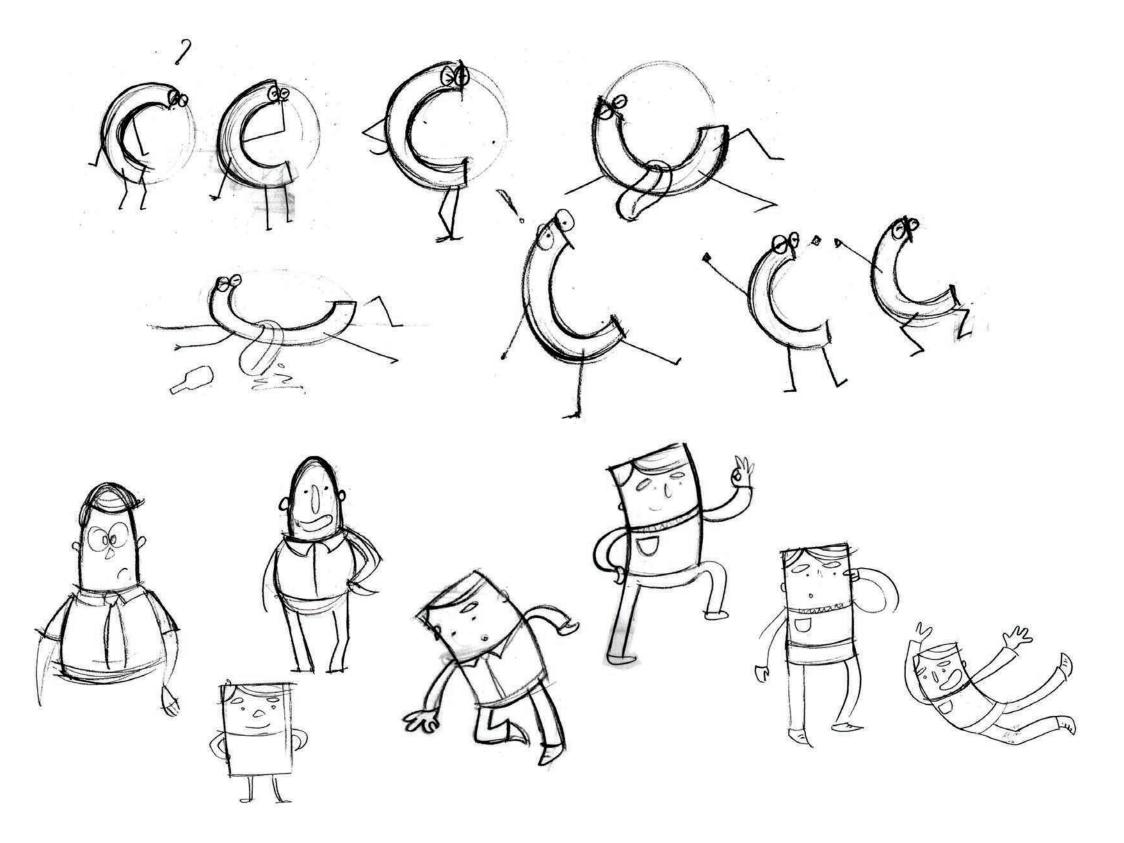
always, around, because, been, before, best, both, buy, call, cold, does, don't, fast, first, five, found, gave, goes, green, its, made, many, off, or, pull, read, right, sing, sit, sleep, tell, their, these, those, upon, us, use, very, wash, which, why, wish, work, would, write, your





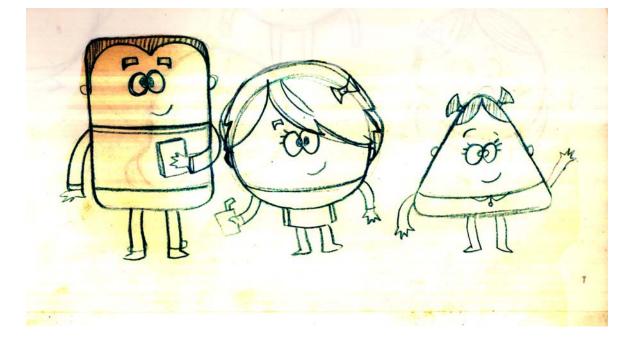


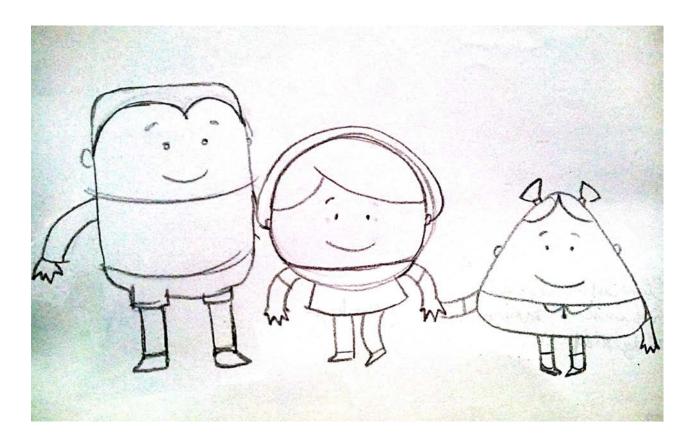


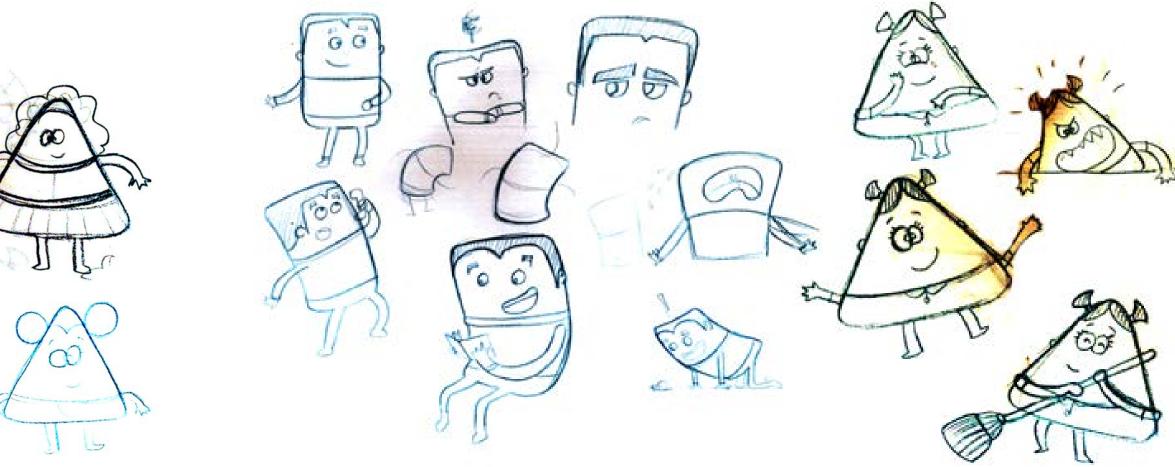


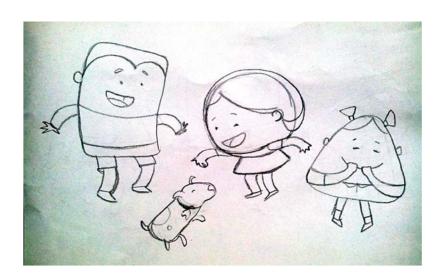






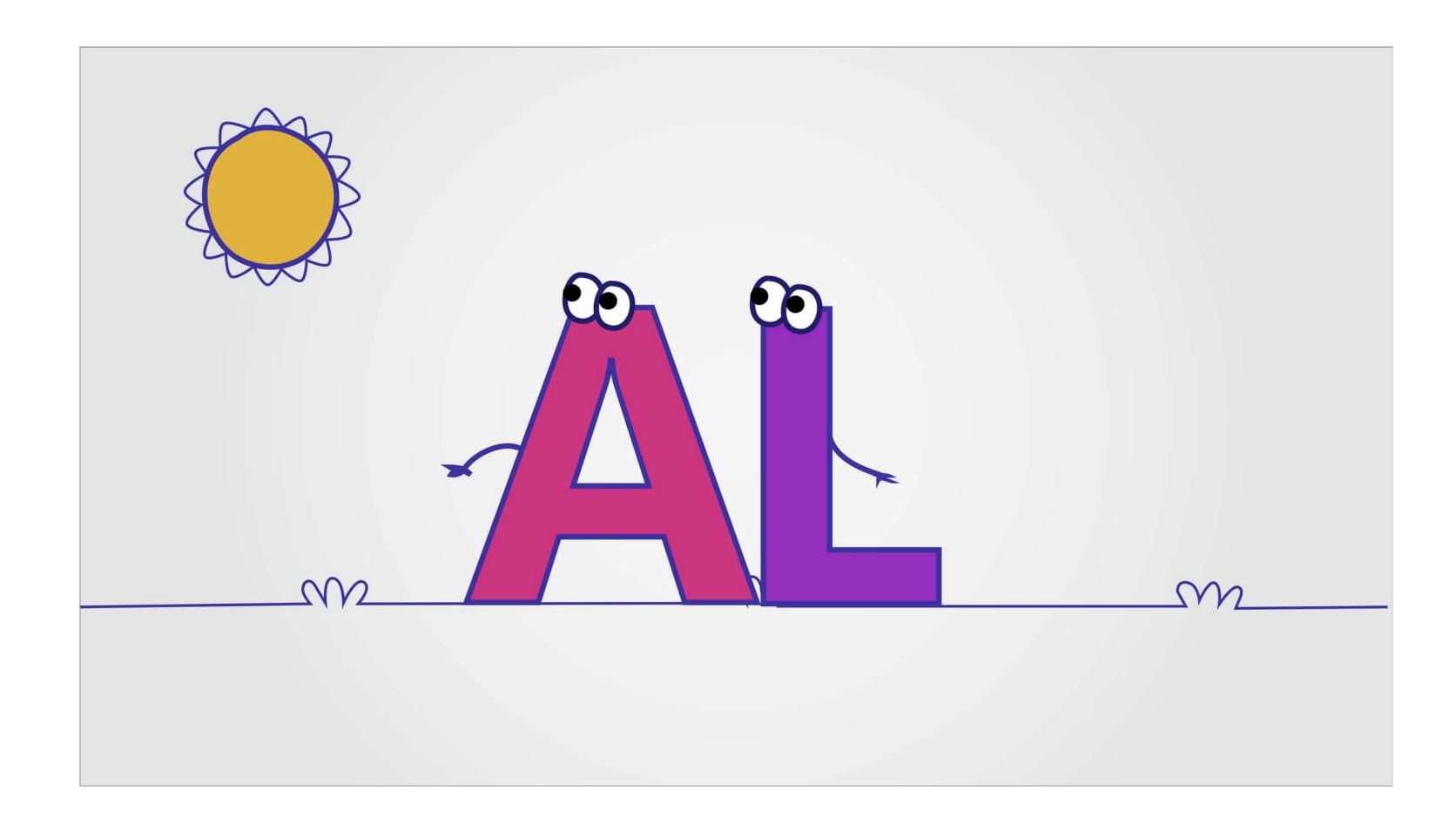






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All caps is not recommended



Needs stronger visual cues



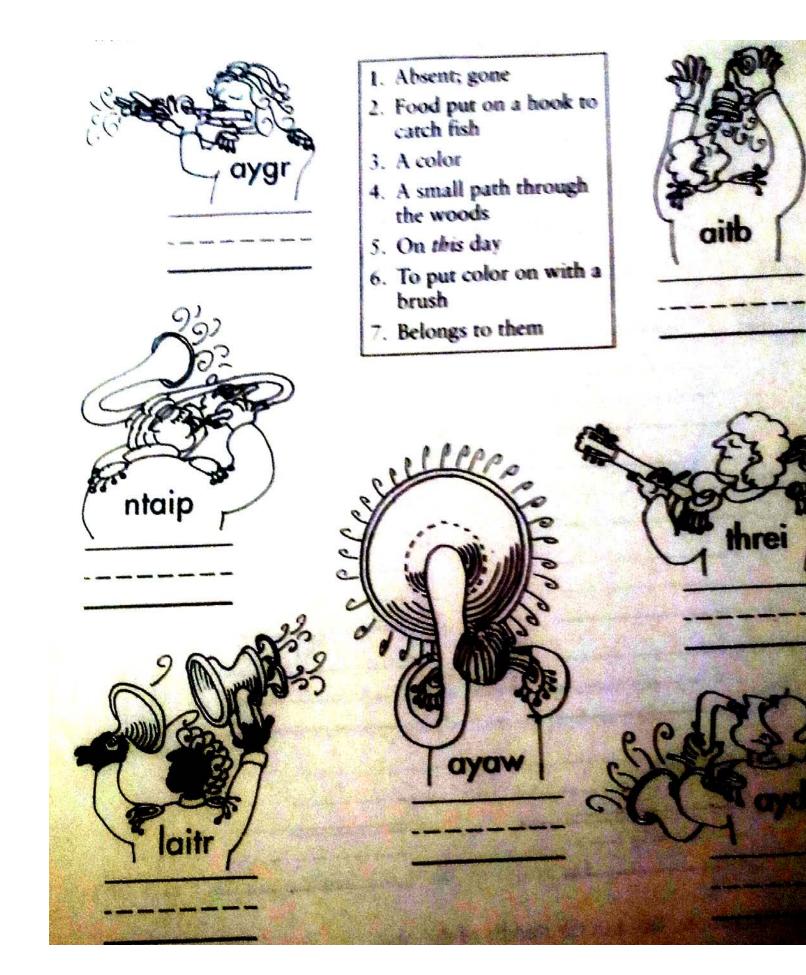
Participatory design

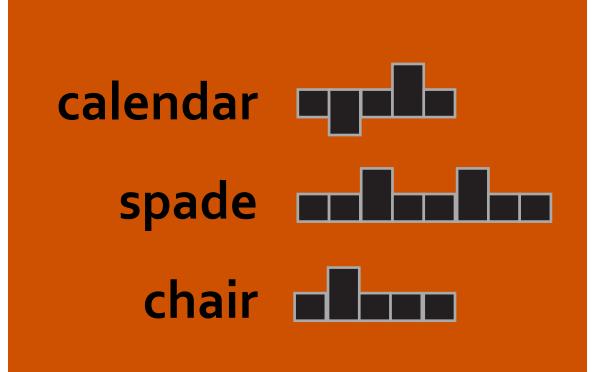
In the normal setting it would be uncommon for one to find words written in all caps, all the time. We have to train kids for what they would face most in life, which is why all learning resources at our center are mostly in small letters.

-Ms. Veena Basu





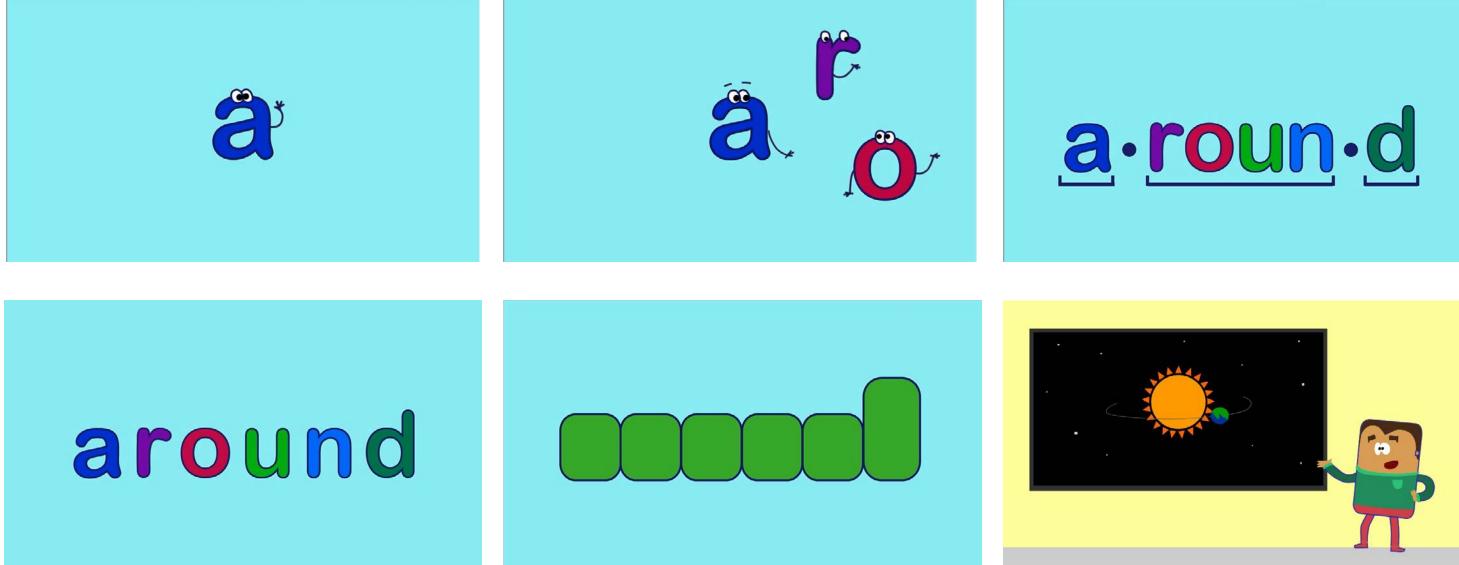




IV. Break the Code. Use the code to write the spelling words.

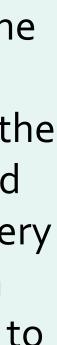
abcdef ↓↓↓↓↓↓ pegsvk	1 1 1 4	11	1	1	111		+		ŧ.	+	+	4	+	1		
a. qikb —				_	k	. W	riq	lb								
b. eqvmdk				_	1	. tn	ndq	ldlh	00	-				 		
c. pbkqeb —					m	. kl	oqt	qik	b	-					_	-
d. daqtb —				_	n	. de	qvt	ym	ik	-	4	-		 		
e. bdlqpwmdk			_	_	0	. tł	pq	lb		_			-	 		
f. coqlbjnw —					р	. a	qeb	hb	vl							-
g. oqlmvc —					q	. iq	wb	ovto	qo	_		-		 -	_	
. qvgmrnd					r	. b	dlq	lb		-		-		 		
					S	. ik	qh	am	rv							
i. kqdlb — i. dqwbdabodrv —						. p										





In the normal classroom context, teachers generate a word list after reading a story or a chapter from the English text. It is automatically assumed that students can break up the words into smaller components and learn the spelling. But this task is very difficult for the learning disabled, a fact that many teachers simply fail to understand.

-Onika Nakra



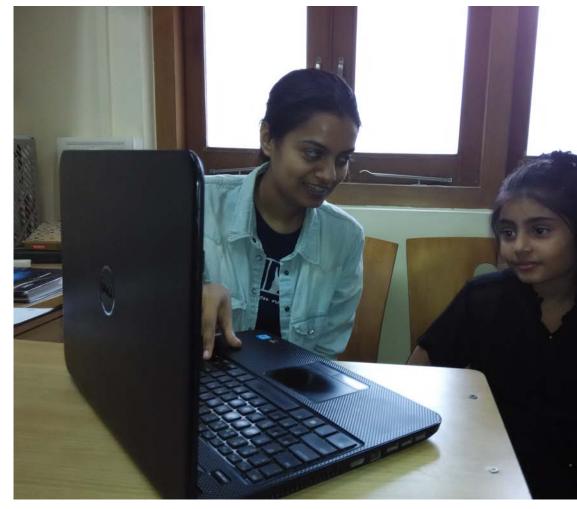
## Evaluation

- Reproducing the correct spelling
- Orally as well as verbally
- Usage of word in own sentence
- Retention of spelling after some time





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Colours

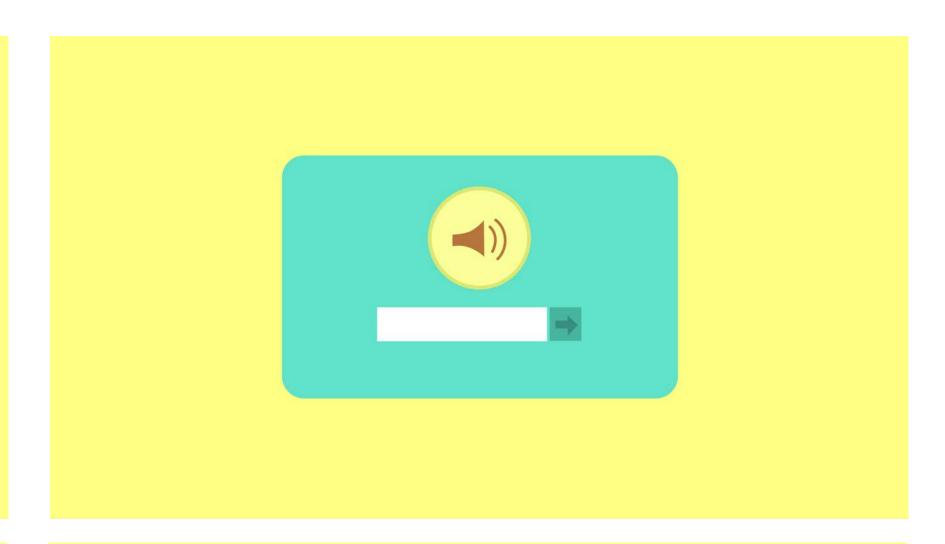


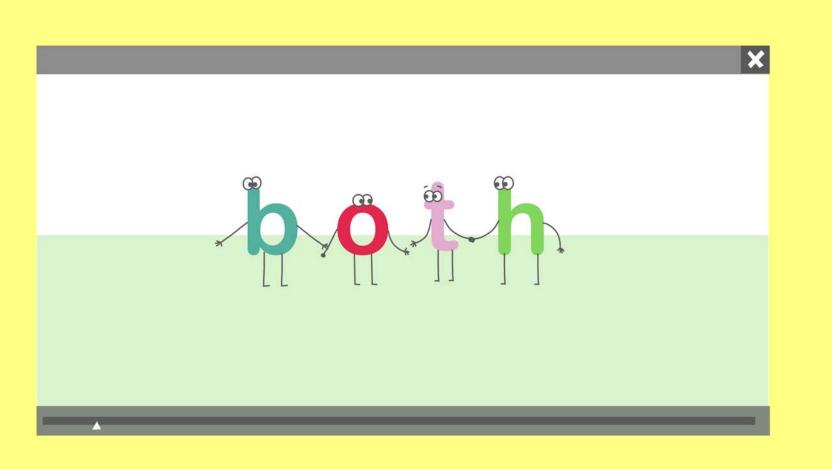
Age-group

## 'Lexy' The Spelling Game

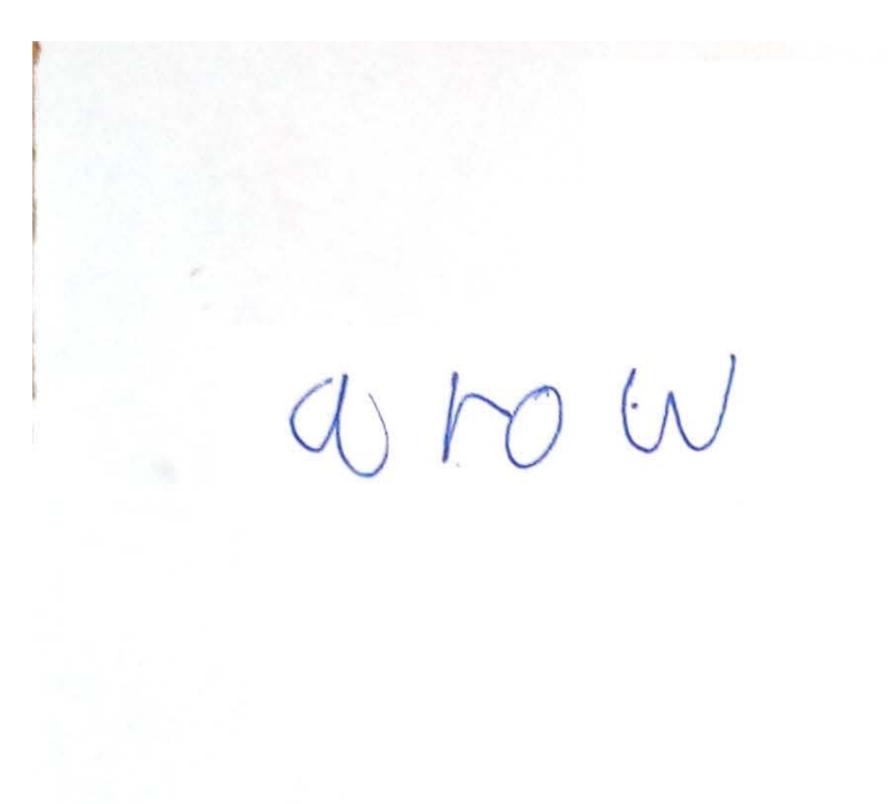
NAME AGE	
ENTER	







## Thank you!





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