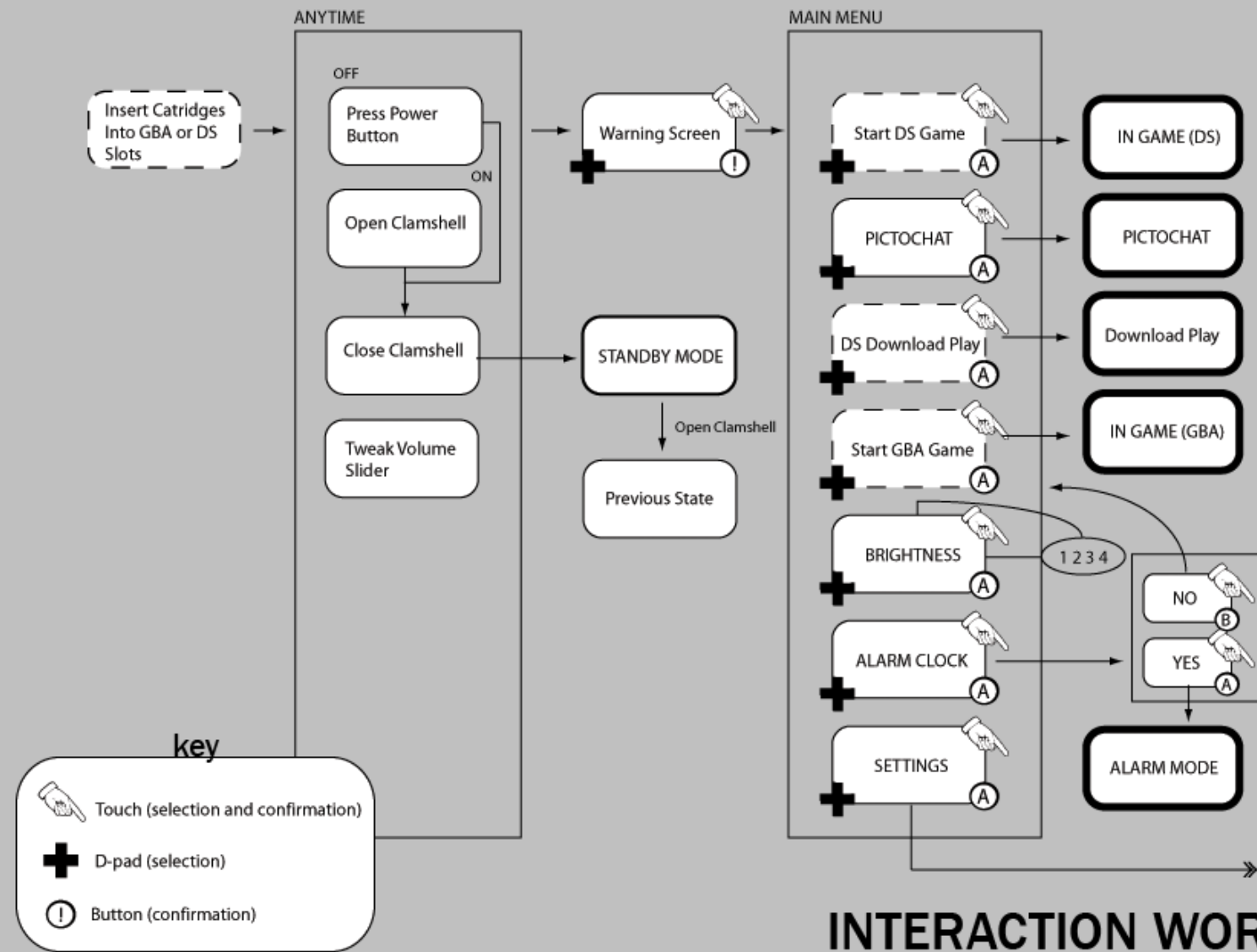


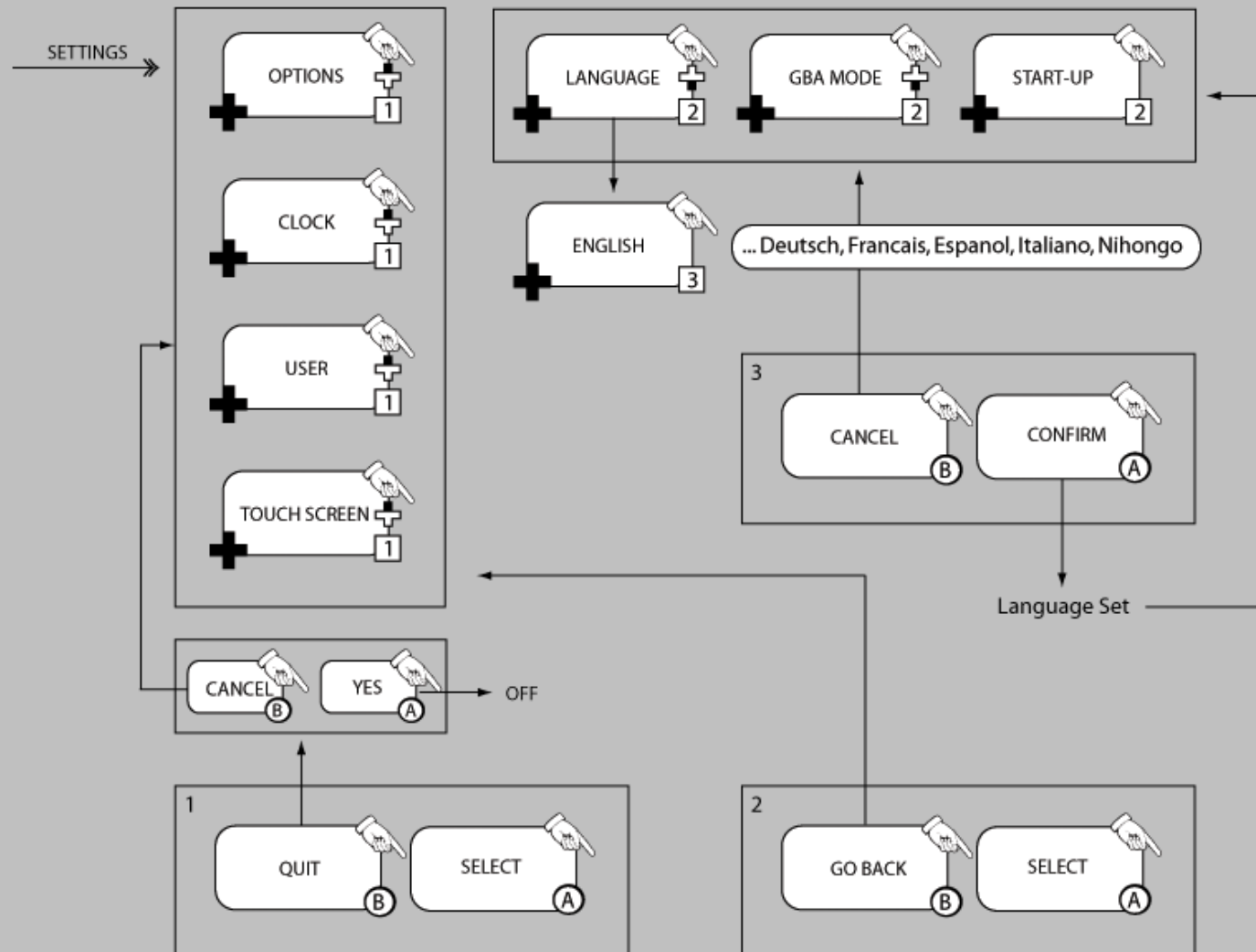
# NINTENDO DS™ INTERACTION AUDIT

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*April 11, 2007*

# PHASE ONE

INTERACTION WORKFLOW  
USER ASSESSMENT  
SCREEN AUDIT





## INTERACTION WORKFLOW

### **PROS: AESTHETICS**

- Clean and polished interface
- Excellent choice in colors
- Audio feedback crisp, unintrusive
- Text small but very readable

### **PROS: HARDWARE**

- Ultra bright screen, fine resolution
- Responsive touch-screen
- Small form factor
- Backwards compatibility with previous generation

### **CONS: NAVIGATION**

- Once menu screens are entered, they cannot be exited without restarting the machine
- Icons are cryptic at best
- Keyboard input changes standard button locations

### **CONS: HARDWARE**

- Cart sticks out for backwards compatible software
- Flimsy plastic stylus
- Does not register new software after startup



### AWKWARD NAVIGATION

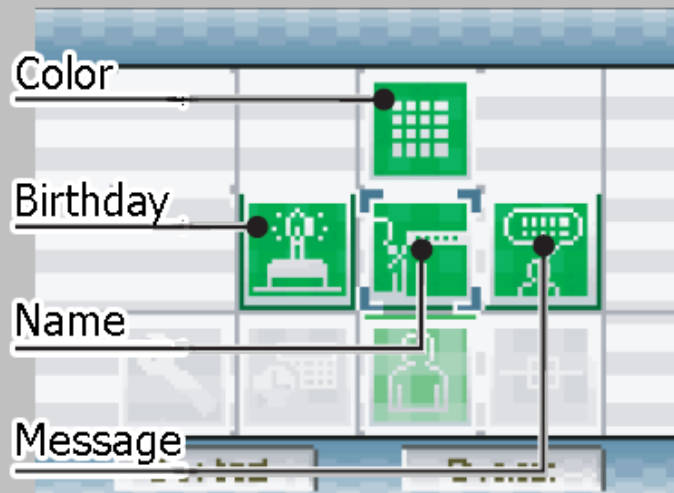
No way to return to main menu from option menu due to forced automatic shutdown.

### UNNECESSARY DISCLAIMER

Japanese mandated health warning wastes time on startup.



SCREEN AUDIT



### INSUFFICIENT FEEDBACK

Changing brightness is guess and check, no indication of current brightness or max levels.

### ABSTRACT ICONS

Icons are ambiguous, hard for users to predict functionality - must cycle through each option to find out what it does.



## SCREEN AUDIT



### LAYOUT INCONSISTENCY

Cancel/Confirm buttons not in standard location during keyboard mode.

### BACKWARDS COMPATIBILITY

Game Boy Advance cartridges stick out of the bottom; looks awkward.



**SCREEN AUDIT**

## PHASE TWO

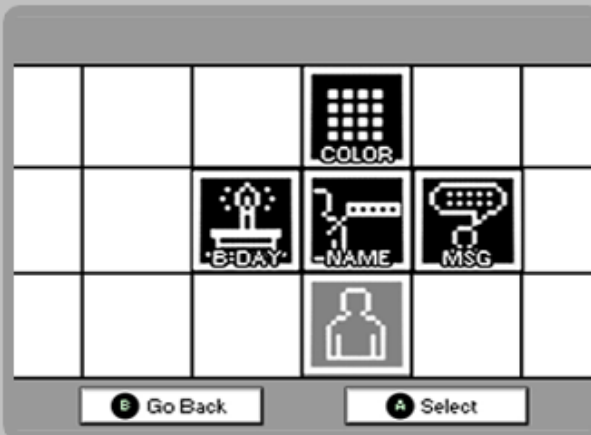
INTERACTION RECONFIG  
GUI WIREFRAMES  
WORKFLOW UPGRADE

## PROBLEM

Abstract Icons

## SOLUTION

Add labels to icons to give users better idea of purpose.

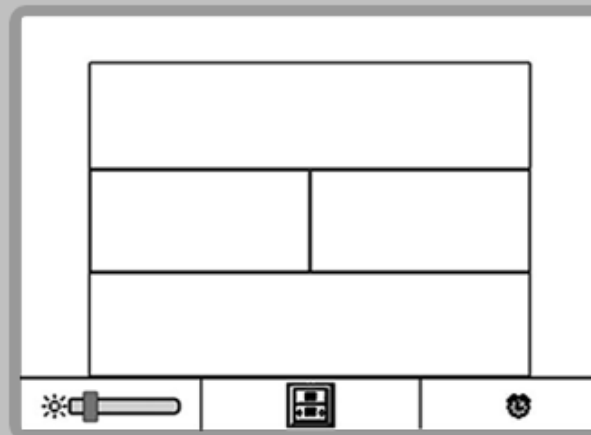


## PROBLEM

Unintuitive brightness control

## SOLUTION

Change control to a slide bar, which naturally works well with stylus interaction.



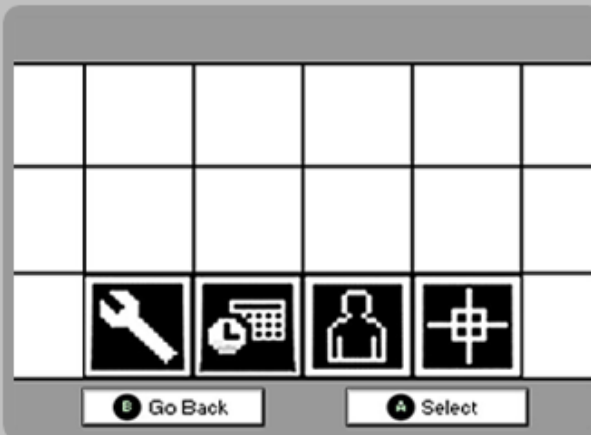
INTERACTION RECONFIGURATION

## PROBLEM

Once entered, a menu cannot be exited.

## SOLUTION

Let users go back to the main menu.

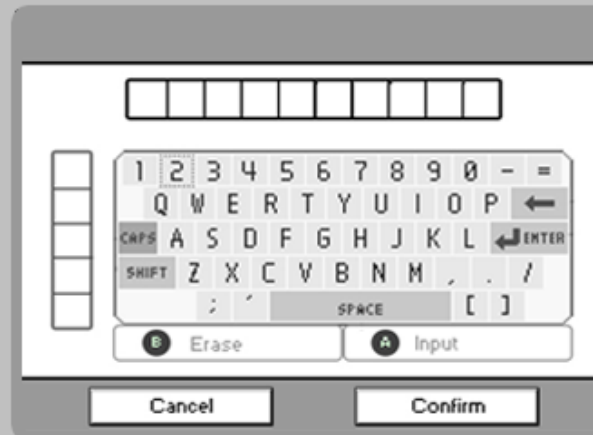


## PROBLEM

Cancel/Confirm buttons move around.

## SOLUTION

Always keep them in the same fixed location.



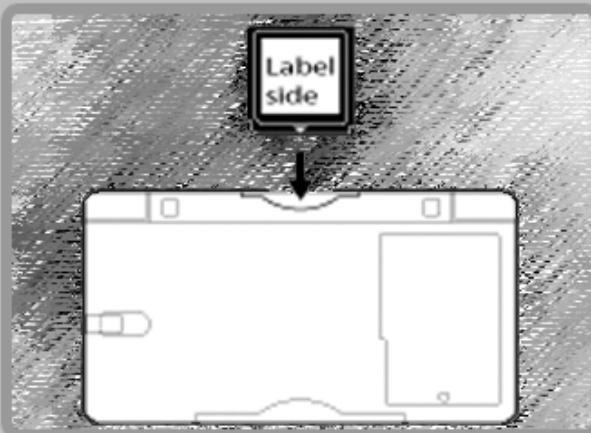
# INTERACTION RECONFIGURATION

### PROBLEM

Games not recognized  
post-startup.

### SOLUTION

Add recognition for media  
inserted after startup.



### PROBLEM

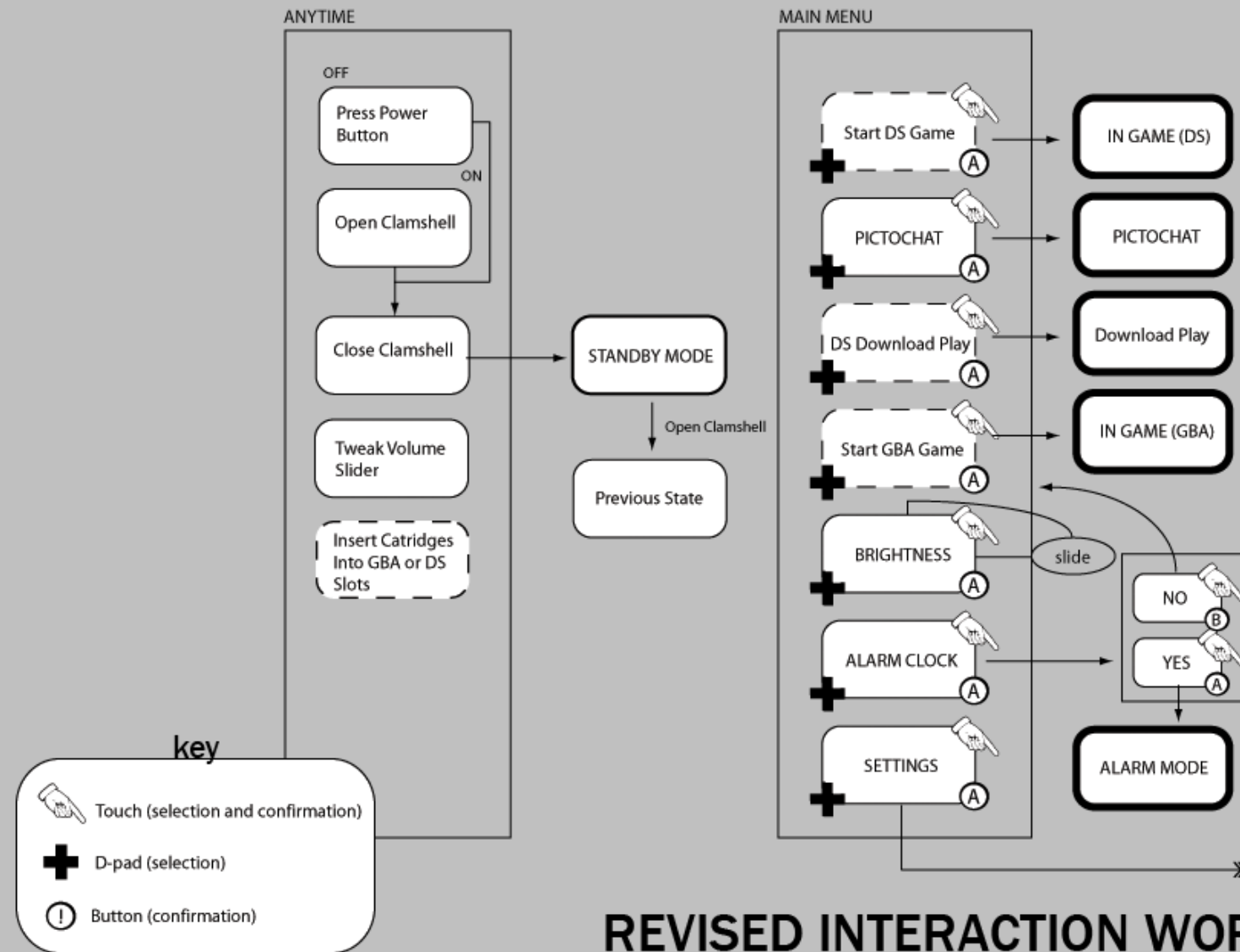
GBA cartridge sticks out.

### SOLUTION

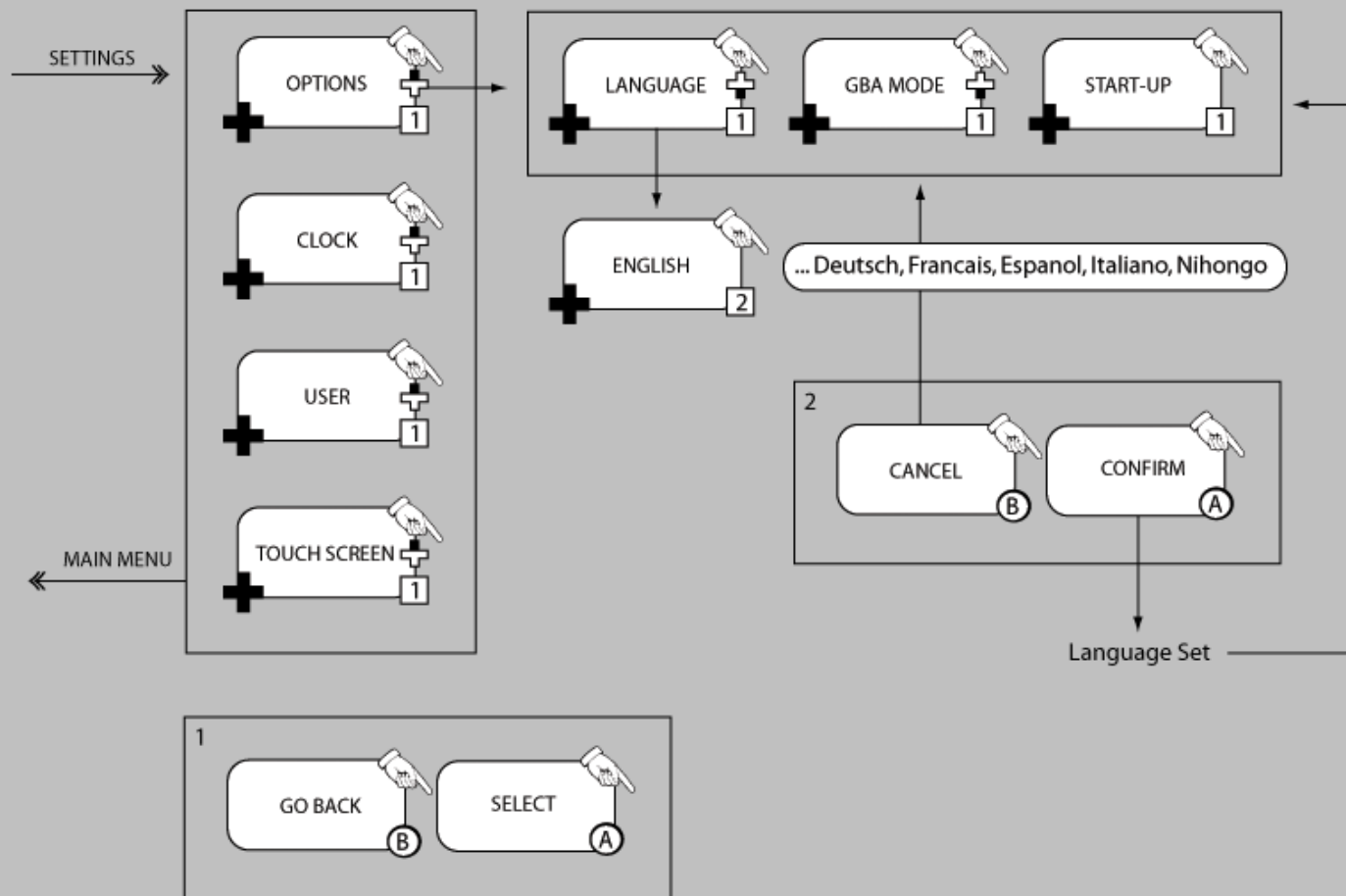
Deepen GBA slot.



INTERACTION RECONFIGURATION



## REVISED INTERACTION WORKFLOW

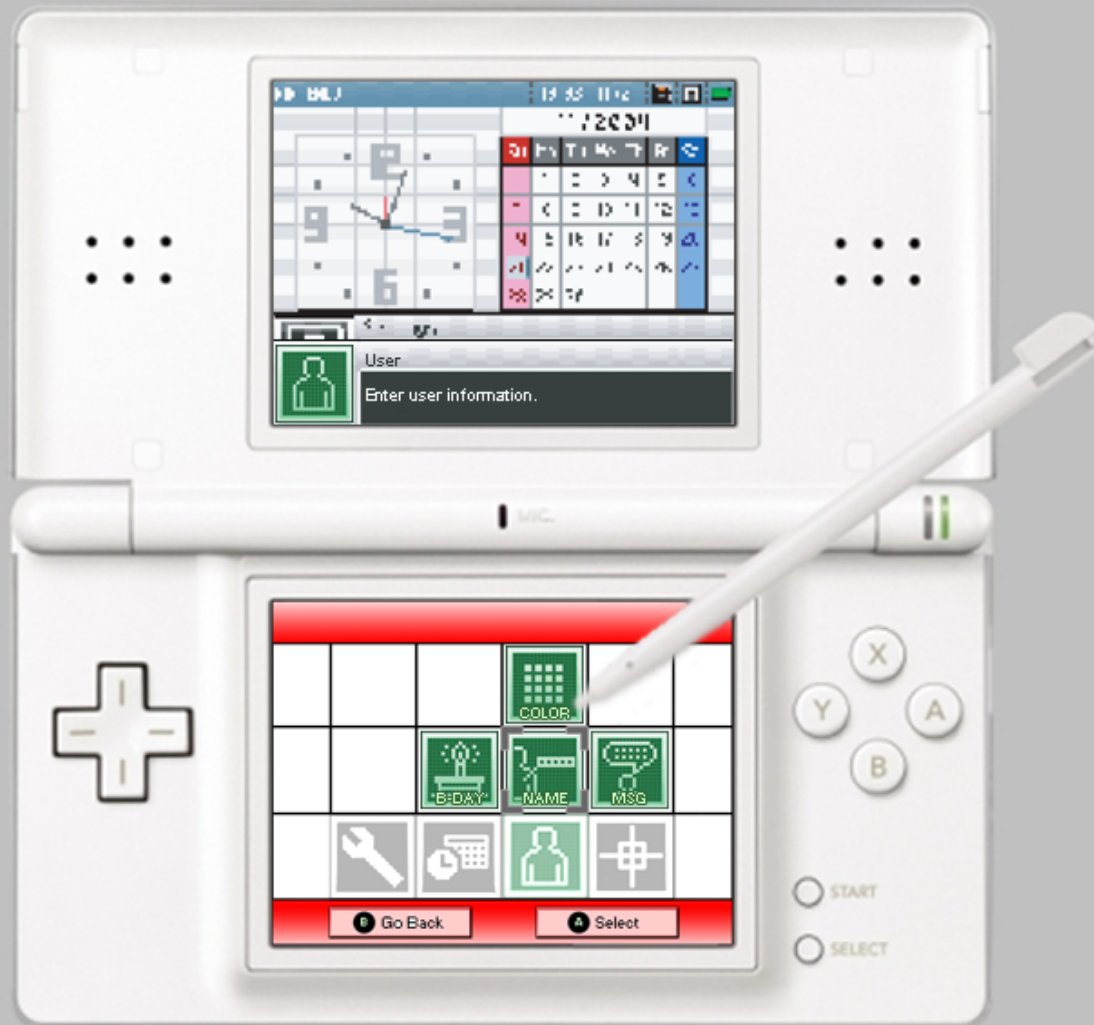


## REVISED INTERACTION WORKFLOW

# PHASE THREE

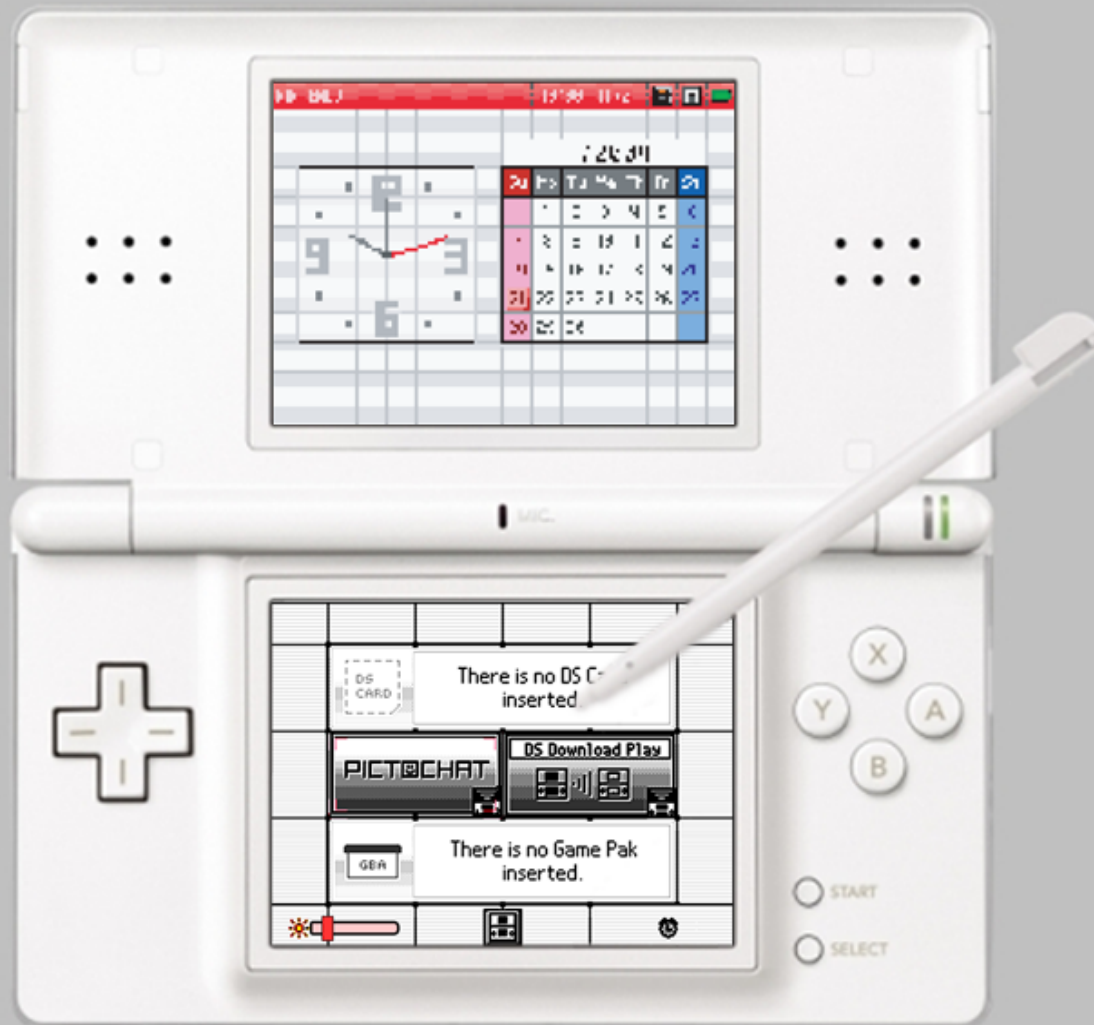
BITMAP EXPLORATIONS

NINTENDO DS™



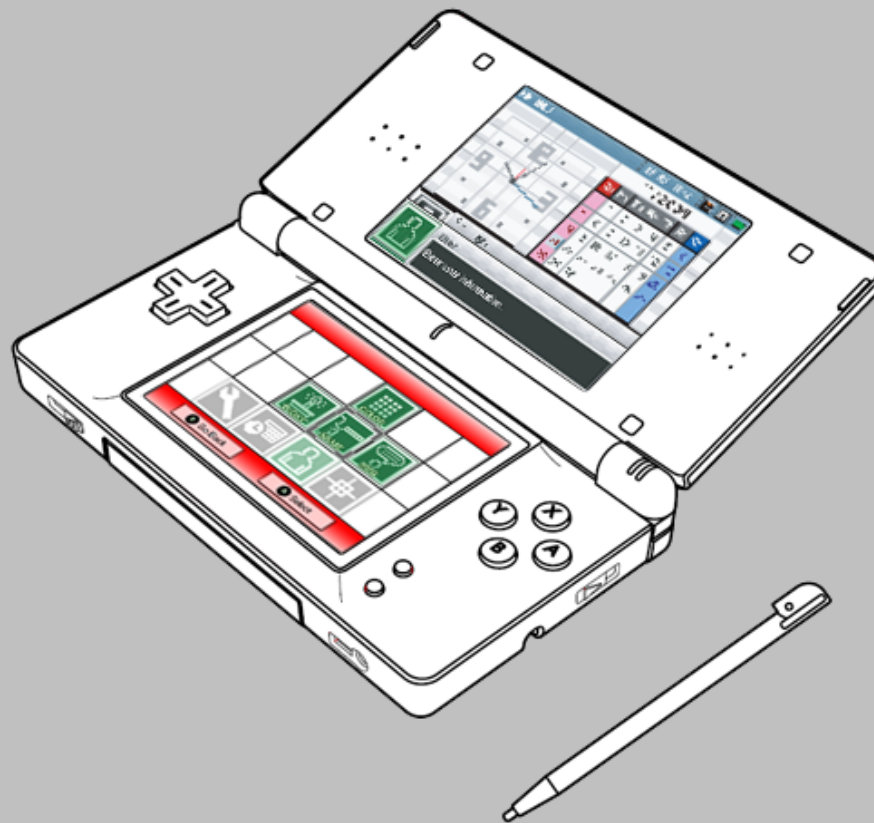
**BITMAP EXPLORATIONS**

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BITMAP EXPLORATIONS

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**BITMAP EXPLORATIONS**