

THE MEMORAID

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PROBLEM & GOAL

- Problem: Leaving the house and forgetting some things that I need for the day.
- Goal: To create a thoughtful project to address this issue.

AUDIENCE

- People who are not able to easily return to their houses to get what they need so it is imperative that they remember the first time they leave.
- People who need specific items on particular days.
- People who can't do what they need to do during the day without certain items.



**CONCEPT/DESIGN
FEATURES**

Begin at the Beginning



Features found around a door – for entering

How can I make sure that I look at the reminder by the door?

Maybe a specific font would be easily read and noticed, so I thought about billboards.



- Solution: make a box that holds my keys so I have to open the box to get my keys and see the reminder lights.

Adding reminders for varying events in the future

- It was important to use a Time Library because I wanted to be able to plan ahead. For example, if I am going to the airport on December 20th my alerts that day should include driver's license and plane ticket. Also, I decided the program wouldn't be as useful if I needed to enter the things that I need to bring the night before. For example, if I buy Christmas presents tomorrow, I can go ahead and remind myself to bring the presents when I go to the airport in December.

Arduino Time Library

<http://www.arduino.cc/playground/Code/Time>



Code and library that allows for this:

Reminders are set based on the day of the week and the hour.

Reminders can also be set by the month and/or the year.



```
void days()
{
  //Monday
  if (day() == 1 && hour() == 12)
  {
    digitalWrite(LED13, HIGH); //water bottle
    digitalWrite(LED12, HIGH); //wallet
    digitalWrite(LED11, HIGH); //phone
  }

  //Tuesday
  if (day() == 2 && hour() == 8)
  {
    digitalWrite(LED13, HIGH); //water bottle
    digitalWrite(LED12, HIGH); //wallet
    digitalWrite(LED11, HIGH); //phone

    digitalWrite(LED10, HIGH); //everything Arduino
  }
}
```

Concept Overview

- Aesthetic: it should look appropriate by the door
- It should have a door with keys so it demands your attention as you leave.
- You should be able to change the input based on what you need.



PRECEDENTS

Intercoms and Name Displays



Door Stickers by Hu2



<http://www.hu2.com>

<http://funnycrave.com/before-you-leave-the-house-dont-forget/6748/>

Taking Notes as Reminders

Digitally:

- Remindr – a service that will reminder you of something at a later date – pick from a reminder via Twitter, Jabber, email, or phone
- Electronic Device – smart phone, computer, etc.



Handwritten:



But why wouldn't I just use Siri on my iPhone to remind me?

Siri, though, does have one handy function that saves you from looking like a forgetful person. You can have it remind you to do something when you leave a certain location, like work or home. The iPhone alerts you with a reminder when you leave that location. You'll never forget anything again.

Not everyone has a smart phone.

Siri reminds you to do something when you leave or arrive – but I don't want to leave to trigger the reminder – I want to know before I go.



http://www.nytimes.com/2012/05/31/technology/personaltech/new-technology-is-the-ally-of-older-people.html?_r=0

Don't forget your thumb drive pop-up window

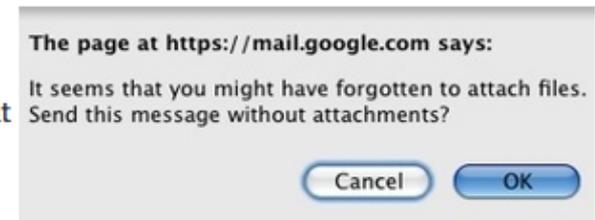
9. Automatic thumb drive reminder

At best, you leave your thumb drive plugged in at work or home. At worst, the easy-to-lose memory sticks get left in a computer lab, a far-away friend's place, or somewhere it can be easily pocketed. Grab the [Flash Drive Reminder](#), make sure AutoPlay is enabled on the Windows system you're working with, and you'll be reminded when you go to log off or shut down that you've still got your drive plugged in. If you're doubtful you'll actually respond to that kind of prompting, you could [label your drive with a name and number](#) to pop up in the "My Computer" view. For more anti-leave-behind tools, check out the comments on our [original post](#)—they're chock full of carabiners, cap hacks, and other suggestions.



7. Always attach the file you meant to

Sending out an email promising to offer correspondents an attached document or file without that file attached is akin to showing up at a pot luck with just a plastic fork. If you're a Gmail user, you can [enable the attachment detector in Labs](#) that'll pop up a notification when it looks like you've forgotten to include your attachments. Working on Outlook? Reader Troy whipped together a little [Outlook Attachment Reminder macro](#) from a [previously posted script](#), and Troy's can work with signatures that demand mandatory attachments.



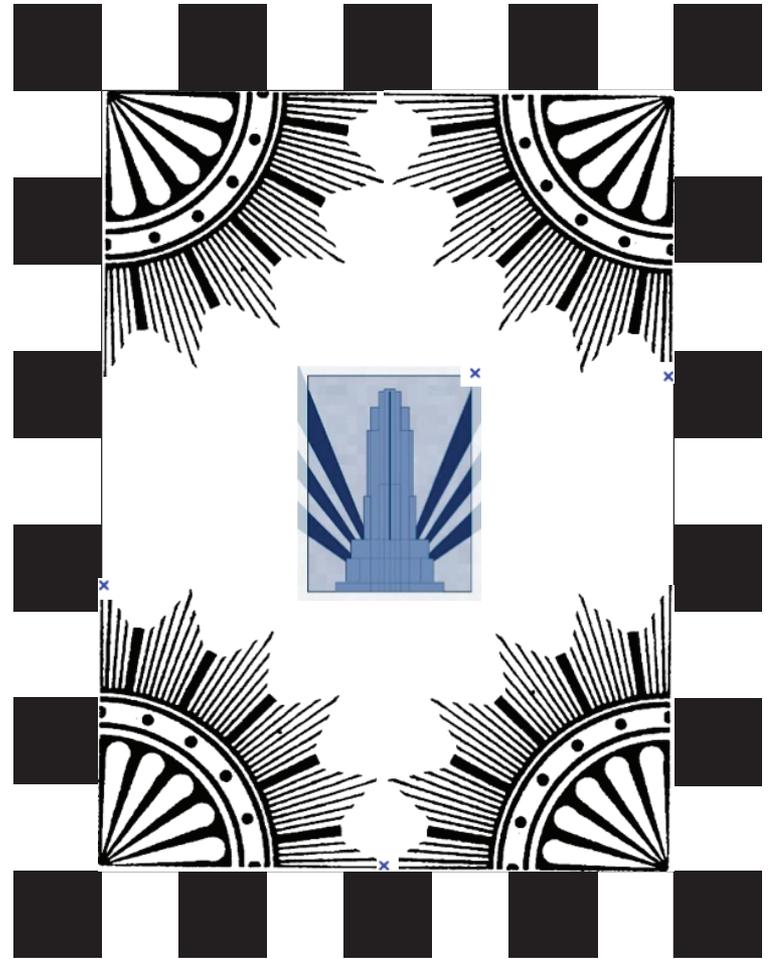
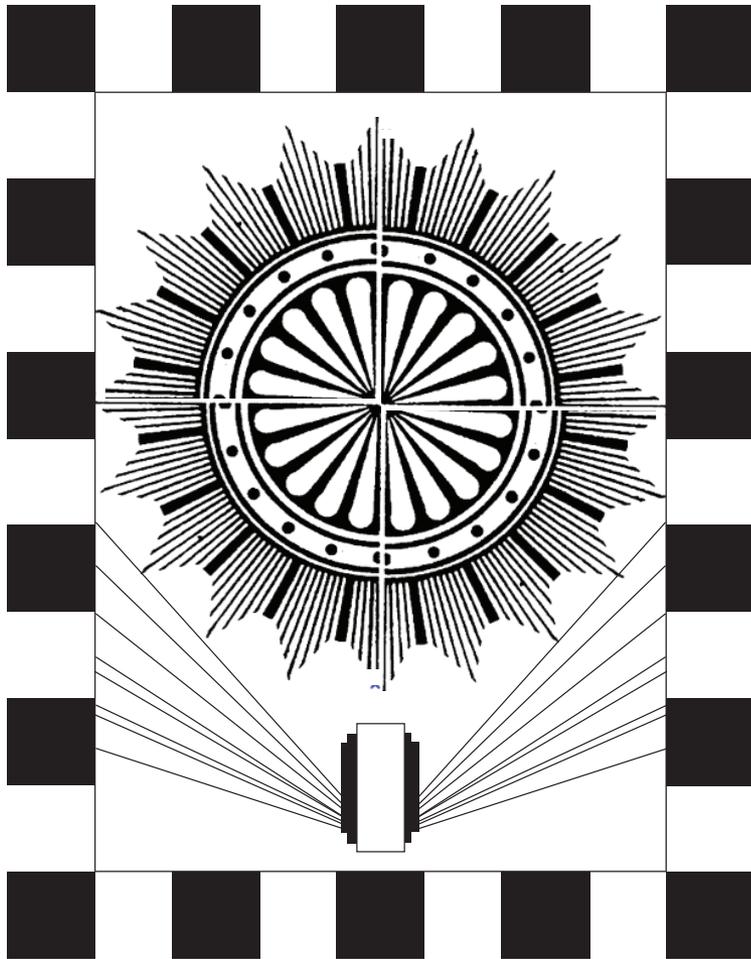
Do Not Forget Doorhanger

8. Do Not Forget doorhanger

You can find a retail version of the Do Not Forget doorhanger design gem at a **few different places**, but it's not that hard to knock off for yourself. Put the things you need to do when you're heading out on one of the pull-off paper tabs—like mailing a package or picking up bread—and you'll hopefully catch it when you're heading out the door. Since our brains can tend to get used to sights and ignore them, make sure to pull your reminder off the doorknob when there's nothing to do. Next time you see that bright-colored hanger, you'll know there's something worth dropping the keys and thinking about. (**Original post**)



Process/Prototypes



What I Learned:

- The Arduino Time Library
- To solder on a Circuit Board
- Real Time Clock Mini Breakout maybe make it possible to not use the computer:
<http://www.ladyada.net/learn/breakoutplus/ds1307rtc.html>
- <https://www.adafruit.com/products/264>

Future Iterations:

- Look into attaching a sensor to the objects that you need and if you don't have them as you walk out the door, you hear a beep
- Add a pleasant sound that rings 10 minutes before you have to leave.
- Add a less pleasant sound that rings saying 'time to go!'
- Add hinges to the door

Image Credits

- Quarter sun image:

http://www.bladerubberstamps.co.uk/onlinesales/product.php?product_id=11&category_id=1&gallery_id=6

Finger with string image:

http://collectingtokens.files.wordpress.com/2009/11/string_on_finger.jpg

THANK YOU!