

GPII

Global Public Inclusive Infrastructure

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What is Inclusive Design?

Design that is inclusive of the full range of human diversity with respect to ability, language, culture, gender, age and other forms of human difference.

Accessibility Myths

- Accessibility is only about “special needs”
- Only a few will benefit from accessibility (80/20)
- Accessibility is costly and complicated
- Accessible designs are uglier



What's Cool

What's Accessible

Design and Development Paralysis

- Where do I start?
- Who are my users?
- What's the process?
- What does it all mean?

Rethinking Disability



Rethinking Disability



Rethinking Disability

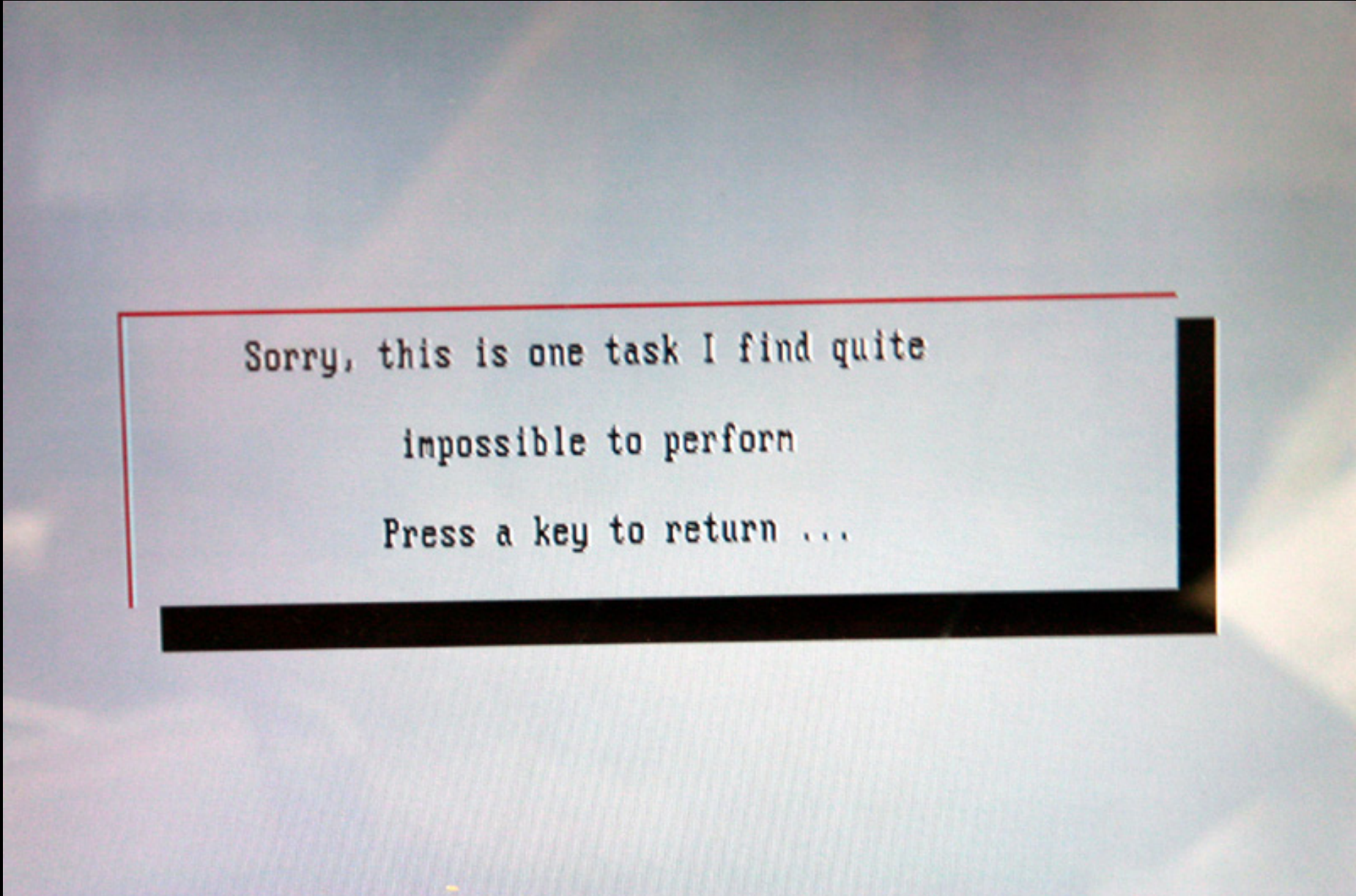
A **mismatch** between
the

user

and the

user interface

Disability is a usability issue



Sorry, this is one task I find quite
impossible to perform
Press a key to return ...

Disability:

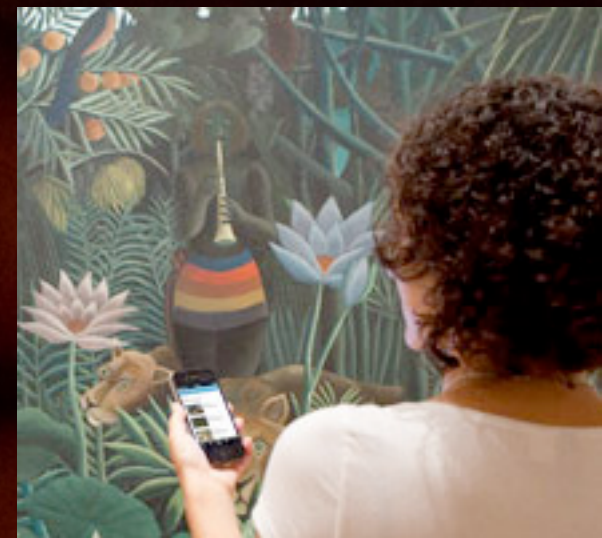
we all experience mismatch

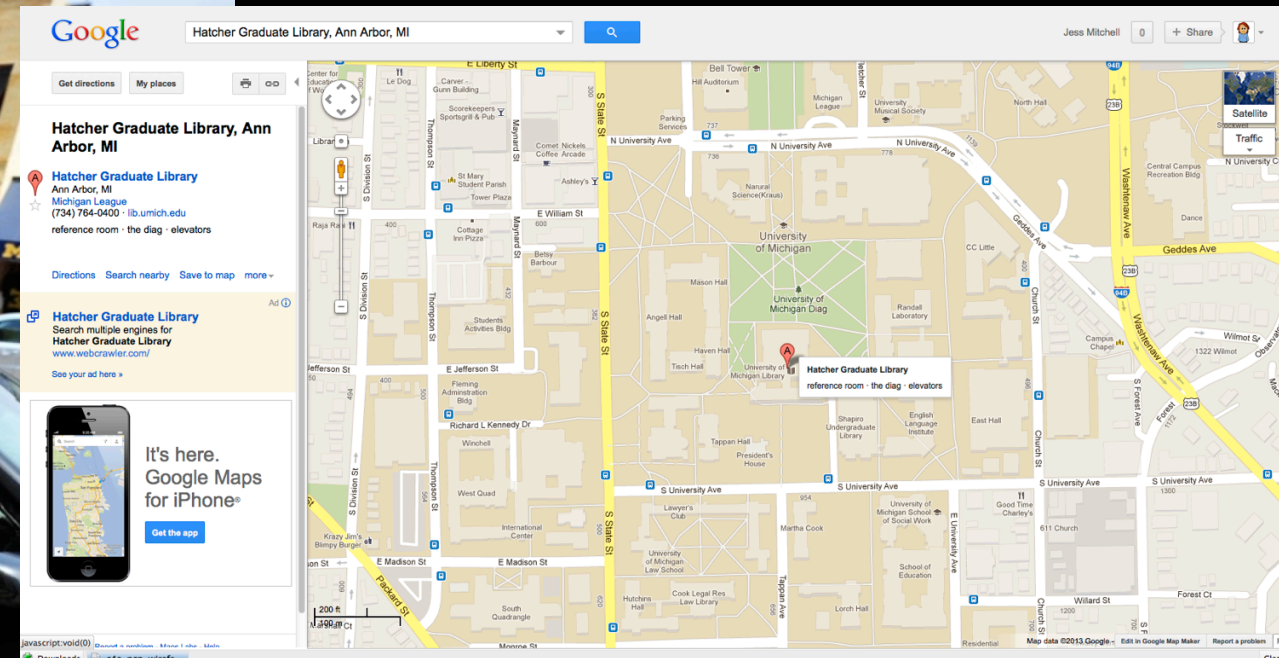
- Cultural (don't speak the language)
- Contextual (hard to concentrate in noisy class)
- Environmental (hard to learn without materials)
- Temporary (an iPod and no earbuds)
- Persistent (vision impairment)



Disability is contextual

Disability is environmental





Accessibility is...

the ability of the system

to accommodate the needs of the user

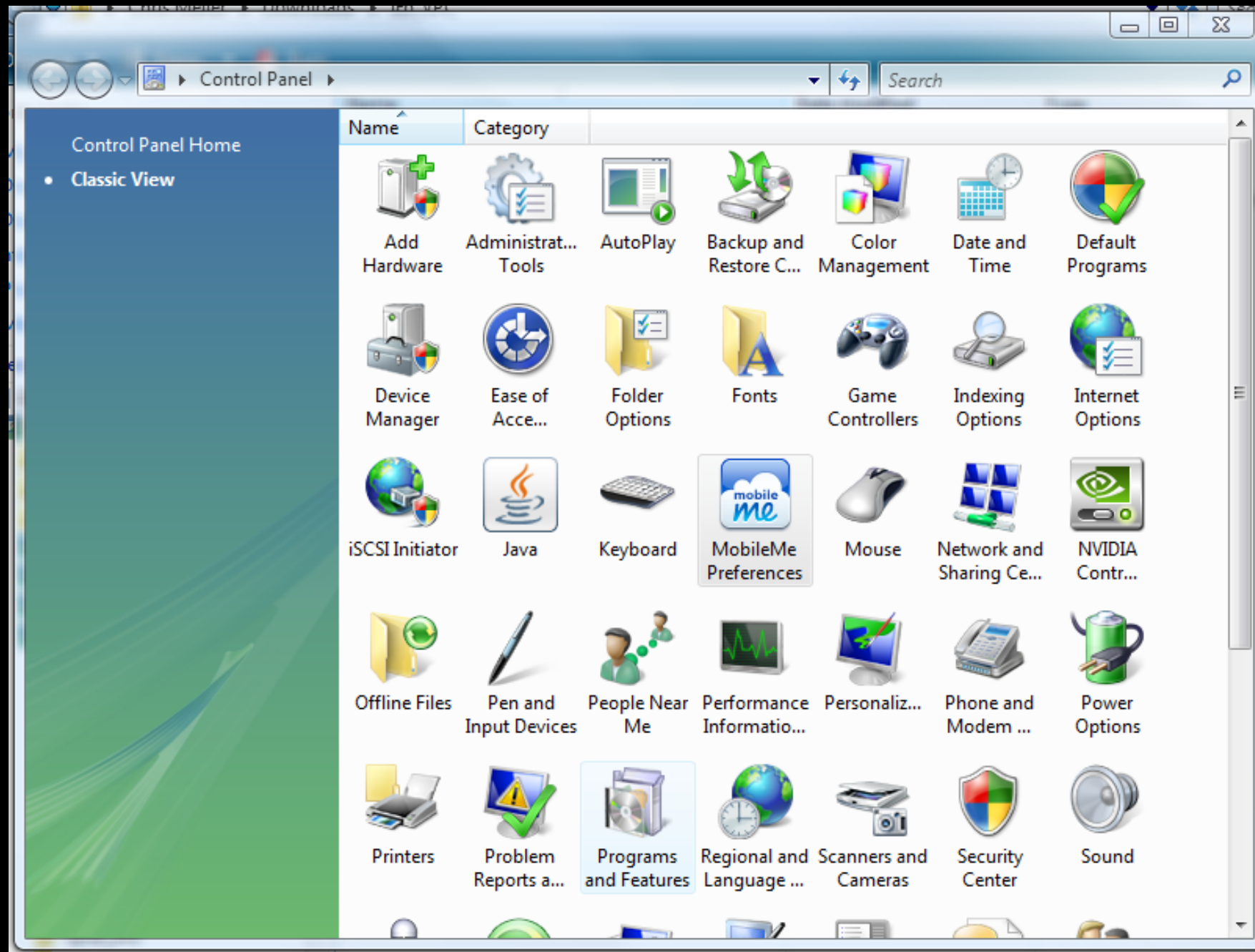
Make yourself at home...



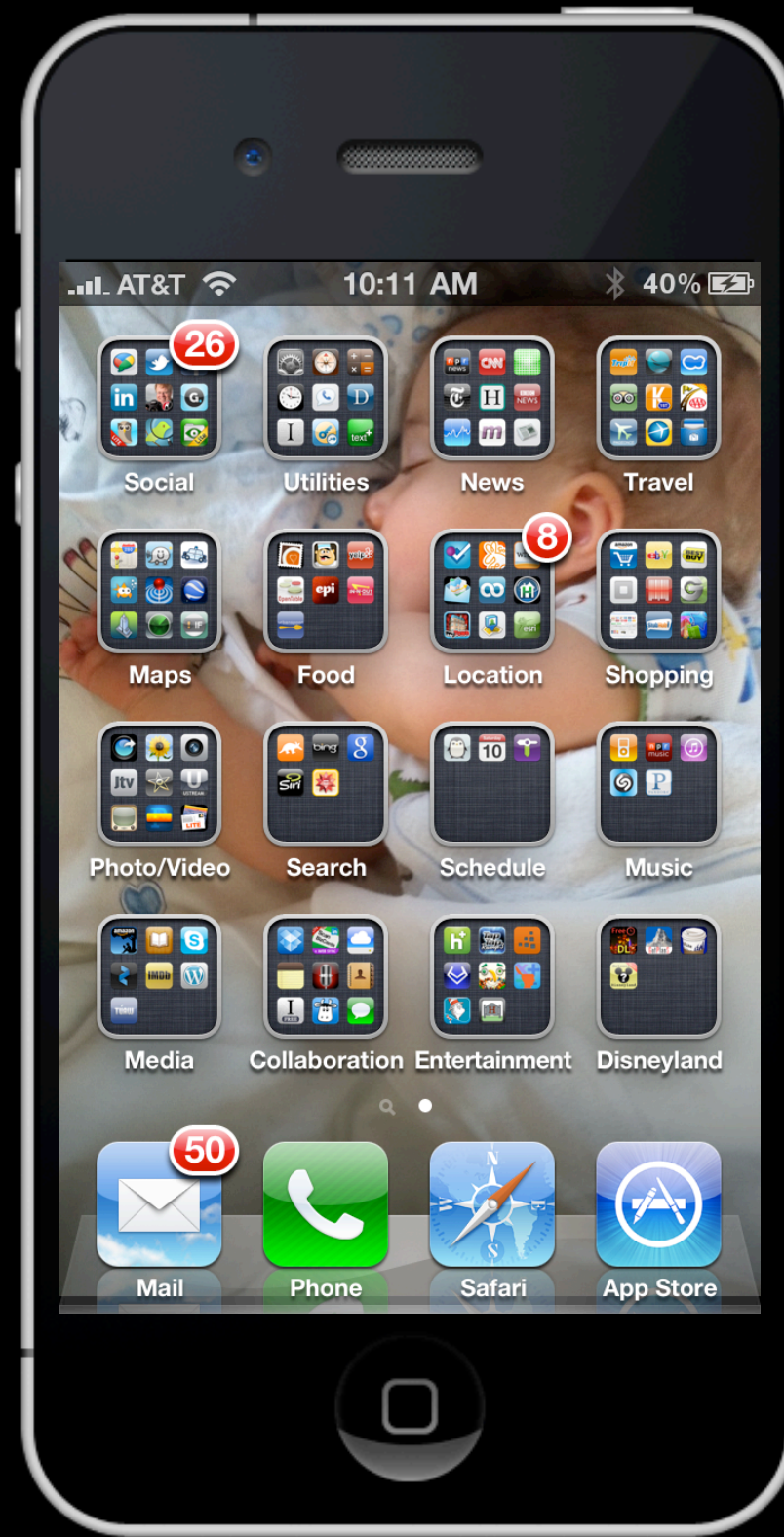
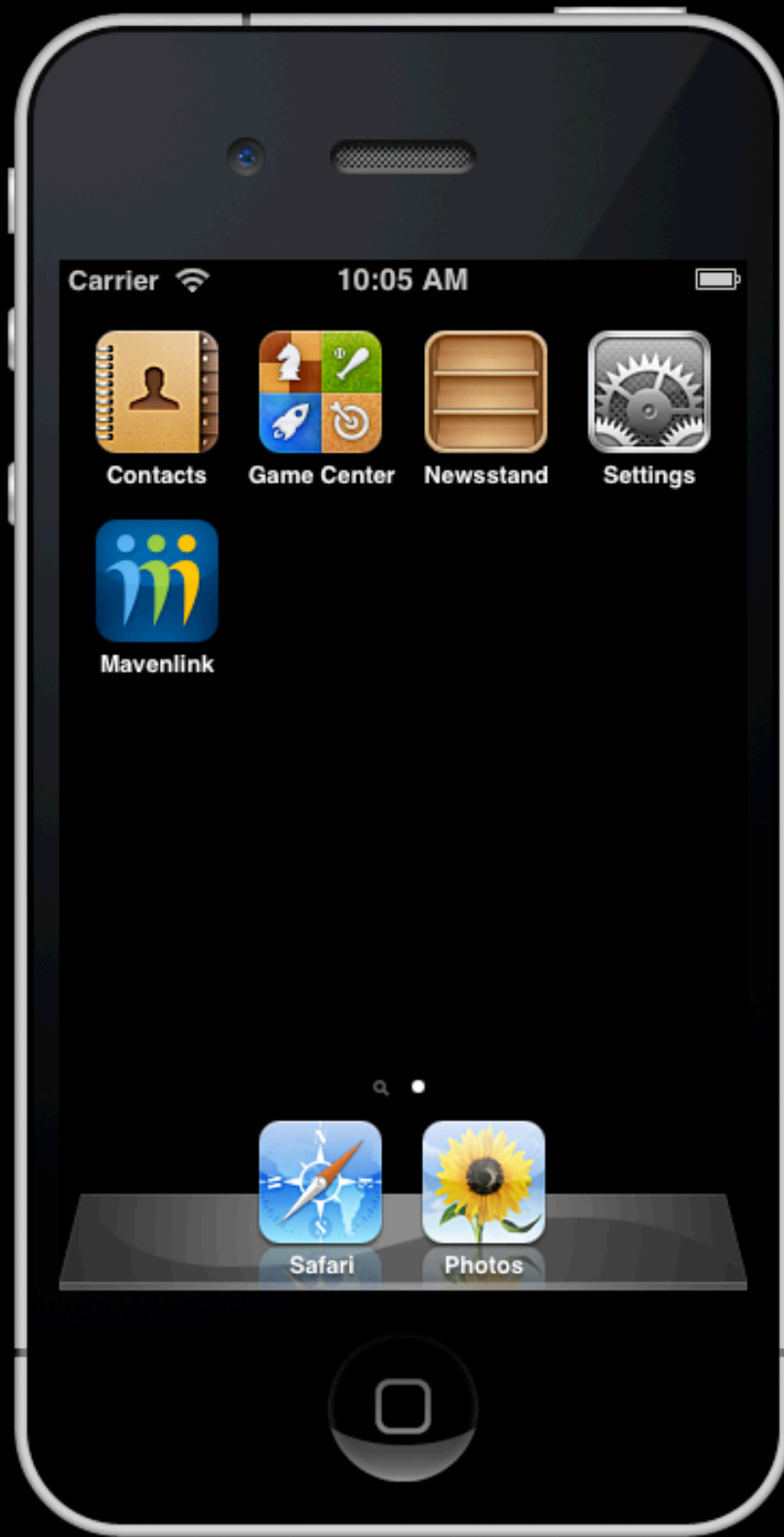
One Size Fits One

- **User interfaces** that can adapt to the needs, preferences, tastes of users—feel at home
- **Content that fits**—delivered in a form that learners can understand and use

Personalization is not



Personalization is this:



- Shop All Departments
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 - Computers & Office >
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Problems & Needs

The Internet is **no longer optional**, but many can't use it.

Computers are **everywhere**, but accessibility isn't.

The assistive technology market is **stagnant**.

The **cost** of assistive technology is unsustainable.

We are in a new era of **cross platform diversity**.

Envisioning the GPII

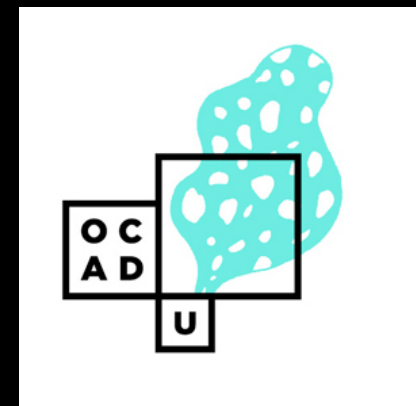


GPII in a Nutshell

- Discover, edit and refine needs and preferences
- Securely store and share in the cloud
- Automatically personalize desktop, mobile, and web
- Get help when you need it (assistance on demand)
- Reduce the cost and complexity of developing accessible software



*
fluid



User Interface Options

Browser navigation: back, forward, search, Reader, refresh, home.

size

A A

contrast

A
 A
 A
 A

emphasis links & button

always underline and bold
 always highlight

simplify

off
 Prioritize information and add a table of contents.

reset display preferences

aliquam

etiam auctor tempus nulla mattis



Hoem > Auctor > Mattis > Lorem Ipsum Dolor sit Amet



Nulla lacinia est eget dui consequat feugiat

[Blandit Erat](#)

[Nec Leo Tempus](#)

[Adipiscing](#)

[Justo Congue](#)

[Curabitur Feugiat](#)

[Dignissim Imperdiet](#)



Lorem Ipsum Dolor sit Amet

Curabitur turpis ante, sollicitudin eu tristique in, aliquam et mauris. [Vivamus](#) sit amet sagittis elit. Mauris sem magna, volutpat vel blandit non, fringilla eu erat. Pellentesque feugiat, orci non pulvinar luctus, nunc nisi ullamcorper dui, ac congue est massa a lorem. Sed sit amet purus vitae felis tempor aliquet vel sed nisi. Morbi sit amet quam non justo congue aliquam nec eget elit. In Sollicitudin urna ac ipsum consectetur commodo.

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captions

⏏ ⏏

transcript

T T

time dependency

time limits

🕒 🕒

disable flashing visuals

size separately from [all size](#) off

transcript

always show transcript if available

video default

transcript scrolling

sync with playback

scroll manually

size separately from [all size](#) off

focused viewing

elements under cursor or

colour contrast

default

size separately from [all size](#) off

text to speech

convert page content to speech off

Press **S** to start and **P** to pause or use page widget.

volume

⏪ ⏩

speed

side top of page

view structure of:

current page

full site

include site search bar

add skip to content links if possible

keyboard shortcuts

use hotkeys to navigate site on

Press **K** to bring up list of available keyboard shortcuts at any time.

minimize -

aliquam

etiam auctor tempus nulla mattis



Hoem > Auctor > Mattis > Lorem Ipsum Dolor sit Amet



Lorem Ipsum Dolor sit Amet

Curabitur turpis ante, sollicitudin eu tristique in, aliquam et mauris. Vivamus sit amet sagittis elit. Mauris sem magna, volutpat vel blandit non, fringilla eu erat. Pellentesque feugiat, orci non pulvinar luctus, nunc nisi ullamcorper dui, ac congue est massa a lorem. Sed sit amet purus vitae felis tempor aliquet vel sed nisi. Morbi sit amet quam non justo congue aliquam nec eget elit. In Sollicitudin urna ac ipsum consectetur commodo.

TEMPUS SEMPER VITAE

Aliquam hendrerit eros ac, pellentesque eu tunc. Sed dapibus sollicitudin cursus. Curabitur



GPII

Preferences Management
Tool

Paul Dunford
 My photos from Tuscany
 Check out these great pictures...
 Close Open

Preference Management Tool
 username@email.com

UNTITLED DESKTOP SET 1 UNTITLED DESKTOP SET 2 +

search preferences all categories

TEXT APPEARANCE

size

A A

size text styles seperately

paragraph

P P

headers

H H

colour & contrast

text colour
 default

background colour
 default

contrast intensity

text style

CONDITIONS ^

LIVE PREVIEW MOCK PREVIEW cancel save

Reminders

- Stop for milk
10/2/17 10:00 AM
- Get new iPad case
- Train Milly how to use an iPad on...
5/30/12 4:00 PM
- Schedule next month's classes
8/1/12 12:00 AM

Trying out voice dictat...

Trying out voice dictation on a new...



GPII / universal

★ Star

14

Fork

19

Code

Network

Pull Requests 8

Issues 8

Graphs

branch: master

Files

Commits

Branches 1

Tags 1

universal / testData / preferences / sammy.json



kaspermarkus 3 months ago GPII-52: Merged colins transformer fix. Removed all non-flat preferen...

1 contributor

file | 10 lines (10 sloc) | 0.61 kb

Edit

Raw

Blame

History

```
1 {
2   "http://registry.gpii.org/common/fontSize": [{"value": 24 }],
3   "http://registry.gpii.org/common/foregroundColor": [{"value": "white"}],
4   "http://registry.gpii.org/common/backgroundColor": [{"value": "black"}],
5   "http://registry.gpii.org/common/fontFaceFontName": [{"value": ["Comic Sans"]}],
6   "http://registry.gpii.org/common/fontFaceGenericFontFace": [{"value": "sans serif"}],
7   "http://registry.gpii.org/common/magnification": [{"value": 2.0}],
8   "http://registry.gpii.org/common/tracking": [{"value": "mouse"}],
9   "http://registry.gpii.org/common/invertImages": [{"value": true}]
10 }
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Firefox

Paving the way toward inclusive Open E...

floeproject.org



Google



floe

flexible learning for open education



HOME

RESOURCES

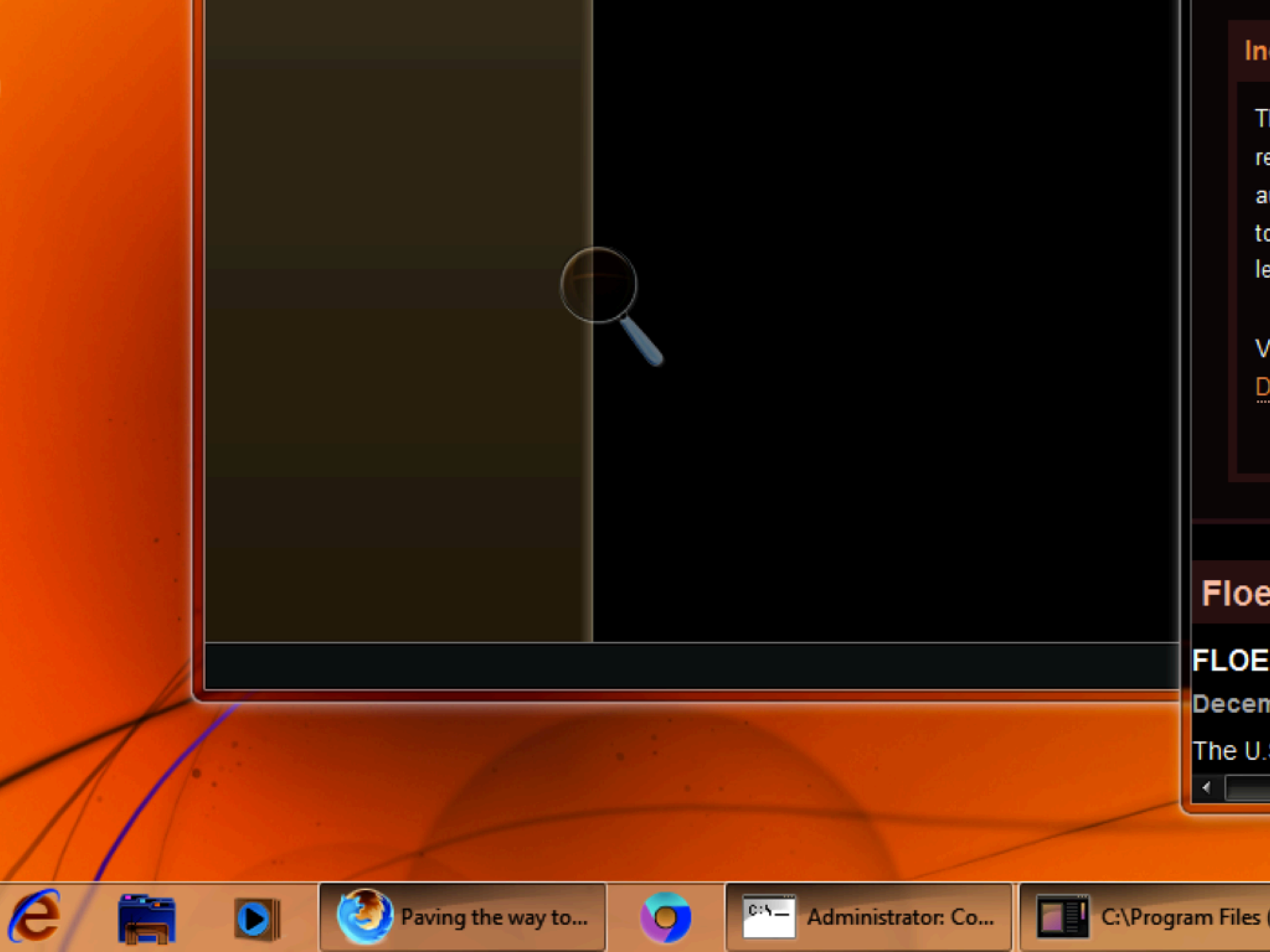
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Paving the way toward inclusive Open Education Resources

Floe provides the resources needed to enable inclusive access to personally relevant, engaging learning opportunities for the full diversity of learners and content producers. Through the Open Education Resources community, Floe makes tools that help transform, augment, and personalize the learning experience.

Watch the [Floe animation for Open Education Week!](#)



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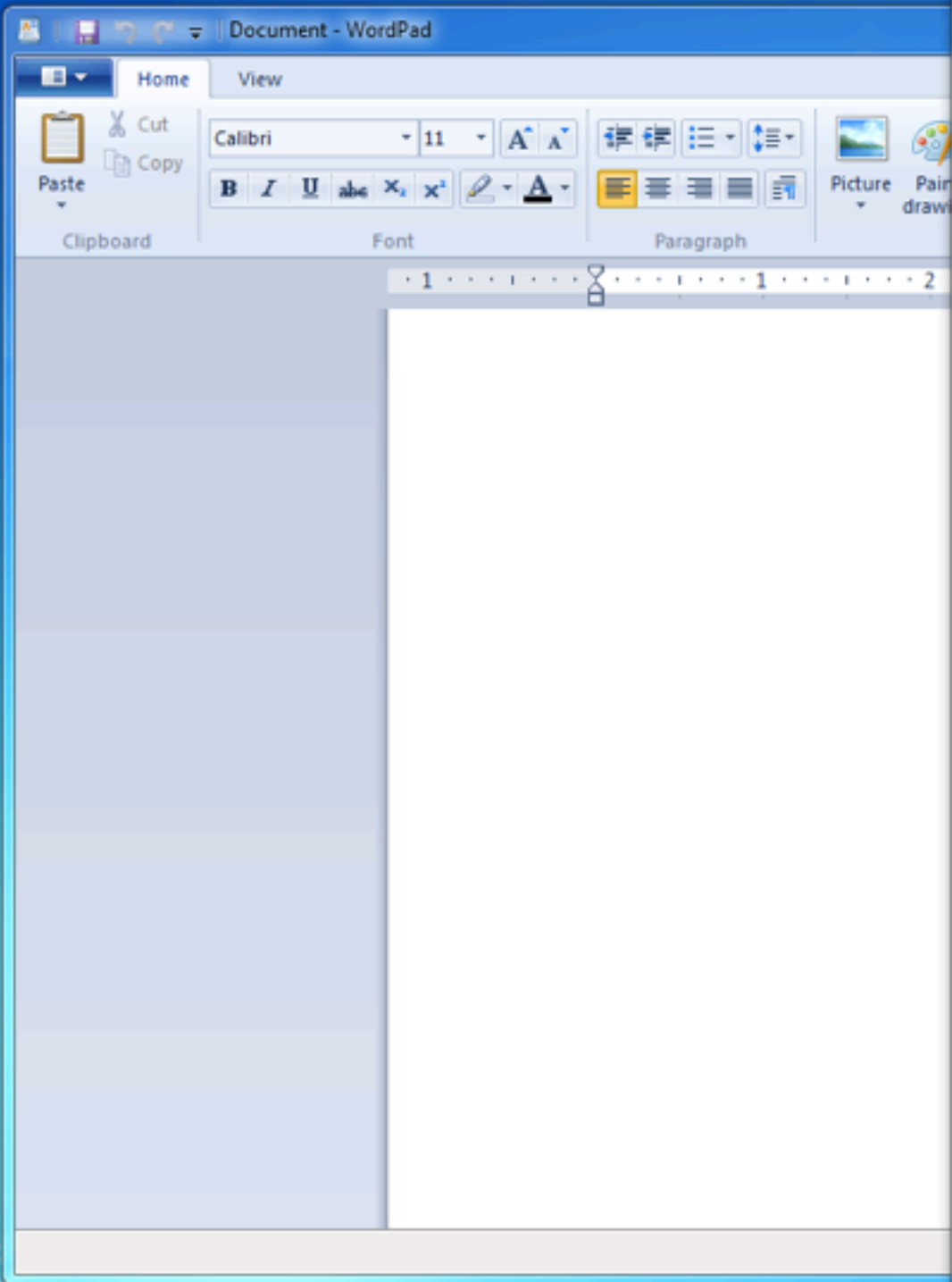
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Administrator: Co...



C:\Program Files




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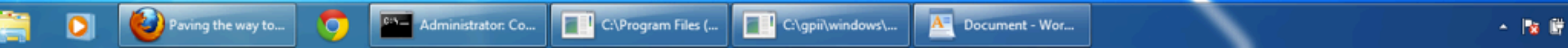
Inclusive Learning Handbook	Floe Wiki	Fluid Infusion
The Handbook is a collaborative resource for teachers and content authors with information on how to create flexible and accessible learning materials. Visit the Inclusive Learning Design Handbook .	Contribute to the latest design and development work and watch it evolve. Visit the Floe Wiki .	Floe builds tools to match learner needs with suitable OERs. These solutions can be embedded in content management and delivery systems, and are being developed as part of Fluid Infusion. Visit the Fluid Project website.

Floe News

FLOE deployment feasibility study funded by US Dept. of Education

December 05, 2012

The U.S. Department of Education's National Institute on Disability and Rehabilitation Research has





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About GPIL

Benefits

How GPIL Will Work

Help Build GPIL

GPIL is a project of Raising the Floor, a consortium of academic, industry, and non-governmental organizations and individuals.

Combining Cloud Computing, Web, & Platform Services to Make Accessibility...

- Simpler
- More Inclusive
- Available Everywhere
- More Affordable
 - for Consumers
 - for ICT and AT companies
 - for Public Access Points
 - for Governments

Major funding for GPIL is currently provided by:

Imagine... every device automatically changing into a form you can understand and use, instantly, whenever and wherever you encounter it.



The purpose of the Global Public Inclusive Infrastructure (GPIL) is to ensure that everyone who faces accessibility barriers due to **disability**, **literacy**, **digital literacy**, or **aging**, regardless of **economic resources**, can access and use the Internet and all its information, communities, and services for education, employment, daily living, civic participation, health, and safety.

As our countries build out their broadband infrastructures to ensure that broadband reaches everyone, it is important that 'everyone' includes people with disability, literacy and aging related barriers to Internet use. We need to be sure that we don't stop at just connecting people to the Internet - but that we also see to it that they can actually use it, and benefit from all that it has to offer.

The GPIL would not create new access technologies or services, but would create the infrastructure for making their development, identification, delivery, and use easier, less expensive, and more effective. Like building a road system does not provide transportation but greatly enhances the ability of car companies and others to do so -- and provides an infrastructure that car companies themselves cannot do. The Internet is the infrastructure for general information and commerce. The GPIL enhancements to the Internet would provide the infrastructure to enable the Internet to be truly inclusive for the first time.


GPIL is a paradigm shift. The GPIL will, for the first time, introduce automatic personalization of user interfaces and user context adaptation based on user preferences. Each information and communication technology (ICT) device



Edit View History Bookmarks Tools Help

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 gpii.net

- More Inclusive
- Available Everywhere
- More Affordable
 - for Consumers
 - for ICT and AT companies
 - for Public Access Points
 - for Governments

Major funding for

participation, health, and safety.

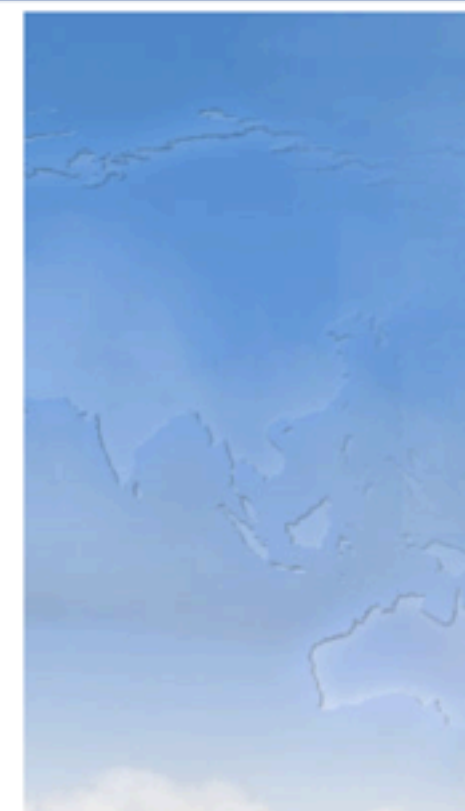
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