



SAGE3  
Collaborate Smarter

# QUICK START GUIDE

DOWNLOAD AND INSTALL SAGE3 FROM  
[SAGE3.SAGECOMMONS.ORG](https://sage3.sagecommons.org)

THIS GUIDE IS FOR BETA VERSION *1.0.0-BETA.12* (2023)

AFTER INSTALLING SAGE3, LAUNCH IT, AND  
SELECT A SERVER FROM THE BOOKMARKS.

NEW

# SAGE3

Collaborate Smarter

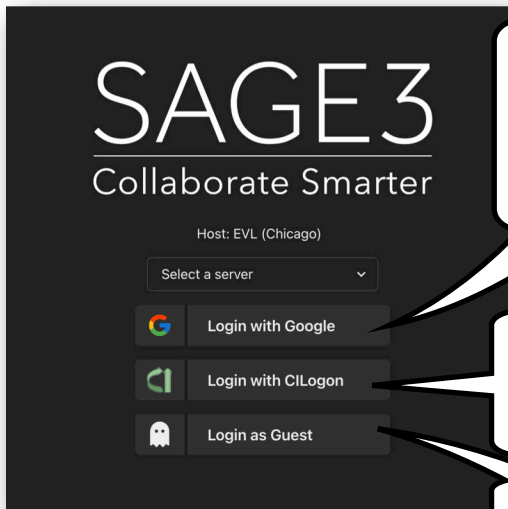
Bookmarks
Chicago
Hawaii
Development
Hawaii Dev

Enter

CHOOSE ONE  
CLOSEST TO YOU  
OR CHOOSE ONE  
YOUR COLLEAGUES  
MAY ALREADY BE  
USING

1

## LOGIN TO SAGE3.



LOGIN WITH YOUR INSTITUTIONAL GOOGLE ID. IF IT DOES NOT WORK USE YOUR PERSONAL GOOGLE ID

ALTERNATIVELY IF YOU ARE A RESEARCH INSTITUTE, TRY CILogon

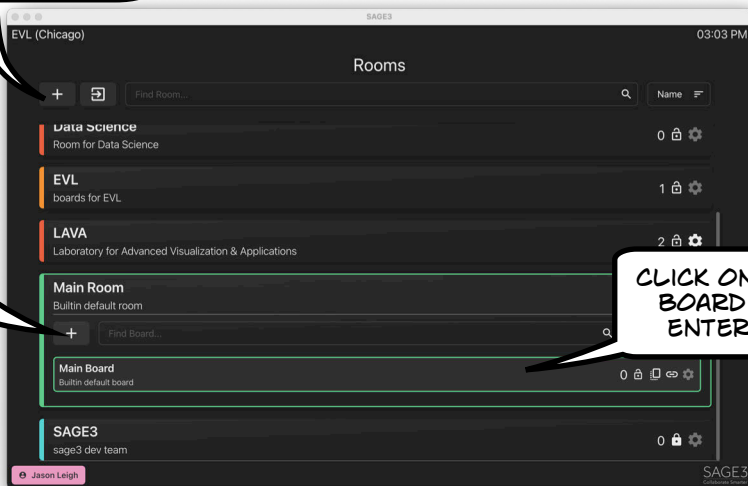
GUESTS CANNOT CREATE ROOMS OR BOARDS BUT CAN EDIT CONTENT

AFTER YOU LOGIN, ENTER A ROOM AND A BOARD.

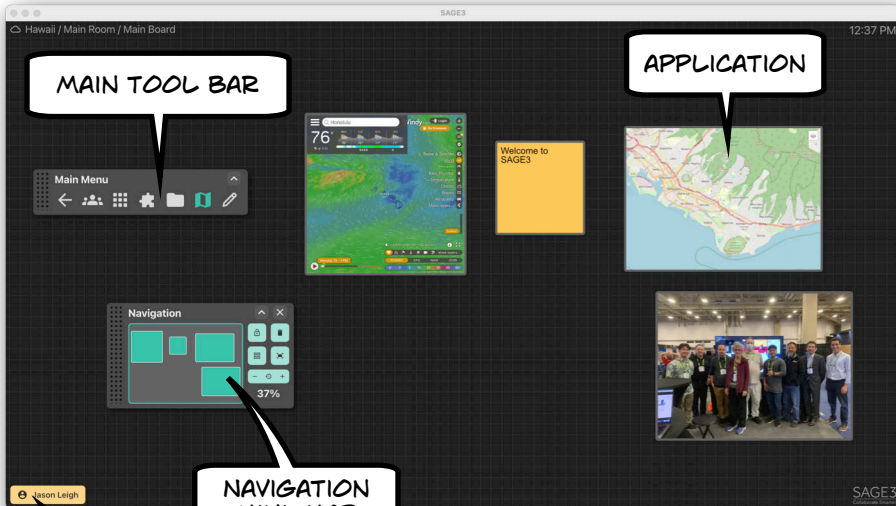
IF YOU LOGGED IN WITH AN ID, YOU CAN MAKE YOUR OWN ROOM

CLICK "+" TO MAKE YOUR OWN BOARD WITHIN THE ROOM

CLICK ON ANY BOARD TO ENTER IT



# INSIDE A BOARD...



MAIN TOOL BAR

APPLICATION

NAVIGATION MINI-MAP

ACCESS ACCOUNT INFO

## NAVIGATING THE BOARD...

CLICK ON  
BOXES TO  
JUMP & ZOOM  
DIRECTLY TO  
INDIVIDUAL  
APPLICATIONS

The screenshot shows a web browser window titled "SAGE3" with the URL "https://www.windy.com/?21.289...". The main content is a weather application for Honolulu, displaying a current temperature of 76°F and a 4-day forecast. A "Navigation" panel is overlaid on the left, showing a grid of application icons. A yellow box on the right says "Welcome to SAGE3". The bottom left shows a user profile for "Jason Leigh".

Hawaii / Main Room / Main Board

SAGE3

12:41 PM

Honolulu

Windy.com Login

Go Premium

76°

MON 76° TUE 76° WED 77° THU 77°

6 kt

Radar & Satellite

Wind

Wind gusts

Rain, thunder

Temperature

Clouds

Waves

Air quality

More layers...

Surface

particles animation pressure

More layers...

ECMWF GFS NAM ICON

kt 0 5 10 20 30 40 60

Monday 13 - 1 PM

Webview

https://www.windy.com/?21.289...

SAGE3  
Collaborative Smarter

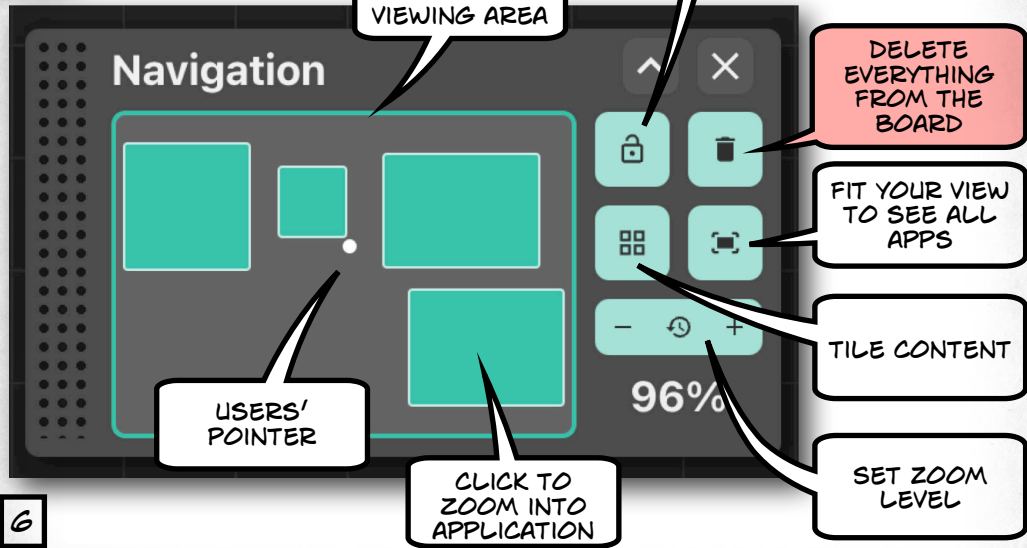
NEW

YOU CAN ALSO CLICK ON A WINDOW YOU WANT TO  
ZOOM INTO, AND PRESS THE "Z" KEY.

5

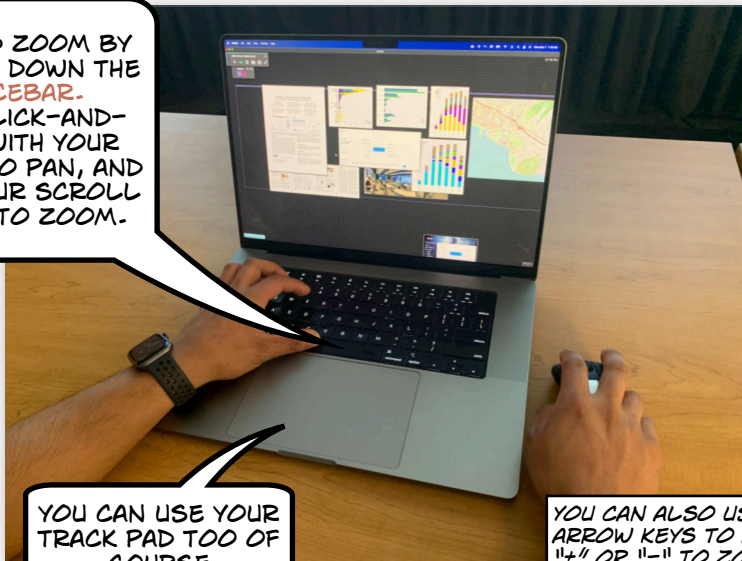
MORE ON THE MINI-MAP...

NEW



## FINE TUNE YOUR NAVIGATION...

PAN AND ZOOM BY  
HOLDING DOWN THE  
**SPACEBAR.**  
THEN CLICK-AND-  
DRAG WITH YOUR  
MOUSE TO PAN, AND  
TURN YOUR SCROLL  
WHEEL TO ZOOM.



YOU CAN USE YOUR  
TRACK PAD TOO OF  
COURSE

YOU CAN ALSO USE THE  
ARROW KEYS TO PAN AND  
"+" OR "-" TO ZOOM



YOU CAN UPLOAD PDF, JPG, JPEG, PNG, SVG, WEBP, TXT, MD, MARKDOWN, MP4, M4V, PY, GEOJSON FILES & URLS INTO SAGE3...

The image shows a screenshot of the SAGE3 dashboard. The dashboard has a dark background and contains several widgets: a weather widget for 'findy' showing 76°F, a map, a 'Welcome to SAGE3' yellow box, a 'Main Menu' with icons for home, users, settings, and edit, and a 'Navigation' panel with a grid of teal boxes and a 41% progress indicator. A 'Downloads' window is open in the foreground, showing a grid of image files. A red dashed arrow points from the first file in the 'Downloads' window to a blank area on the dashboard. A speech bubble points to this area.

Hawaii / Main Room / Main Board

SAGE3

01:03 PM

76°

findy

Welcome to SAGE3

Main Menu

Navigation

41%

Jason Leigh

Downloads

DSC\_6610.JPG 4,000 x 4,000

DSC\_6611.JPG 4,000 x 4,000

DSC\_6684.JPG 4,000 x 4,000

DSC\_6695.JPG 4,000 x 4,000

DSC\_6708.JPG 4,000 x 4,000

DOCX

988 items, 1.78 TB available

SAGE3

JUST CLICK AND DRAG FILES FROM YOUR COMPUTER'S DESKTOP INTO A BLANK PORTION OF THE SAGE3 BOARD

# CONTROLLING YOUR APPLICATIONS...

Main Menu



EACH APPLICATION HAS A TOOLBAR WITH ADDITIONAL OPTIONS YOU CAN ACCESS

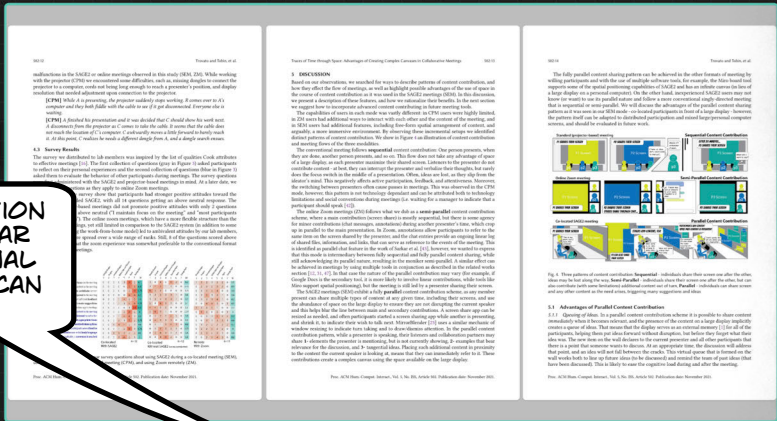
FOR EXAMPLE, FOR THIS PDF VIEWER, CLICK ON "++" TO SHOW MORE PAGES

PDFViewer



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EVEN MORE OPTIONS HERE, LIKE DOWNLOAD A COPY OF THE CONTENT



5810

Treanor and Tabin, et al.

modifications to the SAGEE or online meetings observed in this study (DEB 2016). While working with the presenter (CPM) we encountered some difficulties, such as, missing dialog to connect the presenter to a computer, needs not being strong enough to reach a presenter's position, and display controller that would adjust upon connection to the program.

[CPM] While it is possible, the presenter suddenly stops working. It comes over to a computer and they both talk, with the table to find a problem. Everyone else is working.

[CPM] A disconnect by presentation and it was decided that I should have my next next. I disconnected from the presenter as I cannot see the table. It seems that the table still not reach the location of I computer I can't really see a click forward to help me reach it. At this point, I realize he needs a different angle from, and a change screen views.

### 5.3 Survey Results

The survey we distributed to 106 members was inspired by the list of questions Cook attributes to effective meetings [15]. The first collection of questions (see in Figure 3) asks participants to reflect on their personal experiences and the second collection of questions, that in Figure 3) doesn't ask, but instead asks the behavior of other participants during meetings. The survey questions were shared with the SAGEE and practice based meetings in order. As a later date, we used them to evaluate the behavior of other participants during meetings. The survey questions were shared with the SAGEE and practice based meetings in order. As a later date, we used them to evaluate the behavior of other participants during meetings.

Survey shows that participants had stronger positive attitudes toward the use of SAGEE, with all 14 questions getting an above neutral response. The most meetings did not promote positive attitudes with only 4 questions were neutral. CT exhibits focus on the meeting and "most participants" in online zoom meetings, which have a more flexible structure than the other. This still limited in comparison to the SAGEE system in addition to some feedback from Zoom meetings, which have a more flexible structure than the other. This still limited in comparison to the SAGEE system in addition to some feedback from Zoom meetings, which have a more flexible structure than the other. This still limited in comparison to the SAGEE system in addition to some feedback from Zoom meetings, which have a more flexible structure than the other.

Question ID	Question Text	Response Count	Response Rate
Q1	How often do you attend meetings?	100	94.3%
Q2	How often do you attend meetings?	100	94.3%
Q3	How often do you attend meetings?	100	94.3%
Q4	How often do you attend meetings?	100	94.3%
Q5	How often do you attend meetings?	100	94.3%
Q6	How often do you attend meetings?	100	94.3%
Q7	How often do you attend meetings?	100	94.3%
Q8	How often do you attend meetings?	100	94.3%
Q9	How often do you attend meetings?	100	94.3%
Q10	How often do you attend meetings?	100	94.3%
Q11	How often do you attend meetings?	100	94.3%
Q12	How often do you attend meetings?	100	94.3%
Q13	How often do you attend meetings?	100	94.3%
Q14	How often do you attend meetings?	100	94.3%

Survey questions about using SAGEE during an in-person meeting (DEB), during a Zoom meeting (CPM), and using Zoom Meetings (DEB).

DEB 2016, 106 Participants, Date November 2016.

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Treanor and Tabin, et al.

**5.3 DISCUSSION**

Based on our observations, we searched for ways to describe patterns of content contribution, and how they affect the flow of meetings, as well as highlight positive advantages of the use of space in the context of content contribution. It was used to the SAGEE meeting (DEB). In this discussion, we present a description of these features, and how to understand their benefits. In the next section, we suggest how to incorporate advanced content contributing in future meeting tools.

The capabilities of each of these tools was mostly different. In CPM users were highly limited. In DEB users had additional ways to interact with each other and the content of the meeting, and especially in more interactive environments. By showing these measurements across an identified set of content contributions, we show in Figure 4 an illustration of content contribution.

The conventional meeting follows sequential content contribution, where one person, when they are done, another person starts, and so on. This flow does not take into advantage of space of a large display, as it does not allow participants to share content. Let's take in the previous flow and assume a content of text, they are interrupted by the presenter and he/she is not able to finish the flow, which is the middle of a presentation. When they are not able to finish the flow, they are interrupted by the presenter, and he/she is not able to finish the flow, which is the middle of a presentation. When they are not able to finish the flow, they are interrupted by the presenter, and he/she is not able to finish the flow, which is the middle of a presentation.

The online Zoom meetings, which have a more flexible structure than the other, this still limited in comparison to the SAGEE system in addition to some feedback from Zoom meetings, which have a more flexible structure than the other. This still limited in comparison to the SAGEE system in addition to some feedback from Zoom meetings, which have a more flexible structure than the other. This still limited in comparison to the SAGEE system in addition to some feedback from Zoom meetings, which have a more flexible structure than the other.

The SAGEE meeting (DEB) follows a more flexible structure than the other, this still limited in comparison to the SAGEE system in addition to some feedback from Zoom meetings, which have a more flexible structure than the other. This still limited in comparison to the SAGEE system in addition to some feedback from Zoom meetings, which have a more flexible structure than the other. This still limited in comparison to the SAGEE system in addition to some feedback from Zoom meetings, which have a more flexible structure than the other.

DEB 2016, 106 Participants, Date November 2016.

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Treanor and Tabin, et al.

The fully parallel content sharing pattern can be achieved in the other format of meeting by adding participants and with the use of multiple software tools, for example, the Zoom based tool supports some of the spatial positioning capabilities of SAGEE and has an interface, even for the use of a large display as a personal computer. On the other hand, unorganized SAGEE users may not know how to use the parallel content and follow a more conventional single content meeting, that is sequential or semi-parallel. We will discuss the advantages of the parallel content sharing pattern and how to use a DEB mode to include participants in format of a large display. However, the pattern itself can be adapted to distributed participants and used large personal computers.

DEB 2016, 106 Participants, Date November 2016.

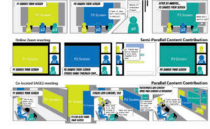


Fig. 4. Three patterns of content contribution: sequential, parallel, and fully parallel. Each pattern shows how content is shared between participants. In sequential, one person contributes content, then another person contributes content. In parallel, multiple people contribute content simultaneously. In fully parallel, multiple people contribute content simultaneously, with each person having their own content area.

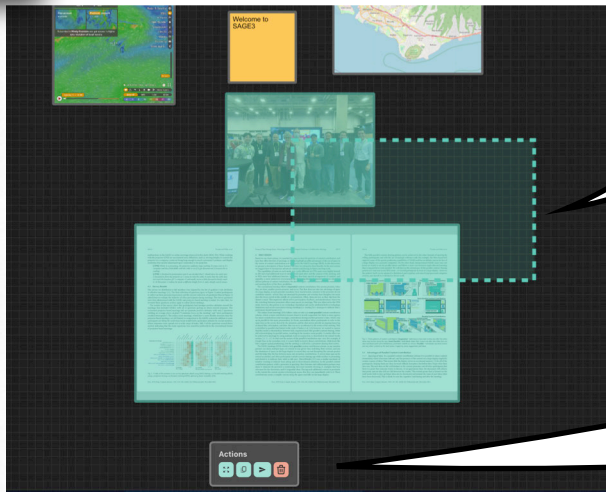
### 5.3 Advantages of Parallel Content Contribution

5.3.1 Grouping of items. In a parallel content contribution scheme it is possible to share content simultaneously when it becomes relevant, and the presence of the content on a large display significantly supports a group of items. This means that the display serves as an external memory [15] for all of the participants, helping them to stay focused without disruption, but before they forget what they are doing. The one item on the wall delivers to the current presenter and all other participants that there is a point that someone wants to discuss. In an appropriate way, the discussion will address the point, and all will be able to follow the track. This virtual space that is formed on the wall works both to the advantage of the presenter and the audience, and instead of just showing that has been discussed. This is likely to ease the cognitive load during and after the meeting.

DEB 2016, 106 Participants, Date November 2016.

## GROUP SELECT ITEMS...

NEW



HOLD DOWN  
SHIFT KEY AND  
DRAG OUT A  
BOUNDING BOX

SELECTED  
ITEMS CAN BE  
DUPLICATED  
OR COPIED TO  
ANOTHER  
BOARD

# ALL THE TOOLS...

NEW

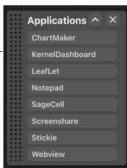
FIND OTHER USERS IN THE BOARD.  
CLICK ON THEM TO JUMP TO THEIR VIEWPOINT.



SCRIBBLE ON THE BOARD



LAUNCH APPLICATIONS



LAUNCH PLUGINS (MINI-APPS)



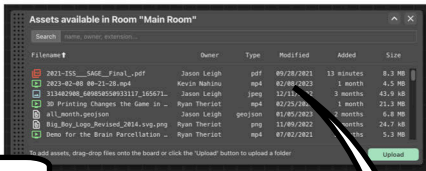
NAVIGATE THE BOARD



QUICK ACCESS MENU (PRESS RIGHT MOUSE BUTTON)



ACCESS ASSETS



11

GIVE THESE APPLICATIONS A TRY...

NEW

VIEW GEOJSON  
FILES

SHARE YOUR  
SCREEN

MAKE A STICKY  
NOTE

OPEN AN  
INTERACTIVE  
WEB BROWSER

Applications ^ X

ChartMaker

KernelDashboard

LeafLet

Notepad

SageCell

Screenshare

Stickie

Webview

LAUNCH PYTHON  
KERNELS

LAUNCH PYTHON  
CODE CELLS

FOR STICKIE NOTES YOU CAN  
ALSO POINT AT A BLANK AREA  
OF A BOARD AND PRESS  
**SHIFT-S**

12

# SCREEN SHARING...

IF YOU SELECTED  
SCREEN SHARING,  
YOU WILL SEE A  
POP UP TO LET  
YOU CHOOSE THE  
SCREEN TO SHARE

SAGE3 10:00 PM

Select Screenshot Source

Screens Windows

Screen: 69734662 Screen: 457179207 Screen:

Cancel Share

Main Room: Main Board

Applications

- Leaflet
- Notepad
- Screenshare
- Sticker
- Webview

Assets available in Room "Main Room"

Filename	Owner	Type	Modified	Added	Size
IMG_1382.JPG	Jason Leigh	jpeg	07/19/2022	54 minutes	10.9 MB

To add assets, drag-drop files onto the board or click the "Upload" button to upload a folder

Jason Leigh

SAGE3  
Collaborative Workspace

SAGES CAN SHARE MULTIPLE SCREENS FROM MULTIPLE LAPTOPS AT THE SAME TIME ACROSS THE BOARD!

SHARED SCREEN

SECOND SHARED SCREEN

THERE IS NO LIMIT ON THE NUMBER OF USERS WHO CAN SHARE THEIR SCREEN AT THE SAME TIME



YOU CAN RUN SAGES3 ON A  
LARGE DISPLAY WALL TOO...



15

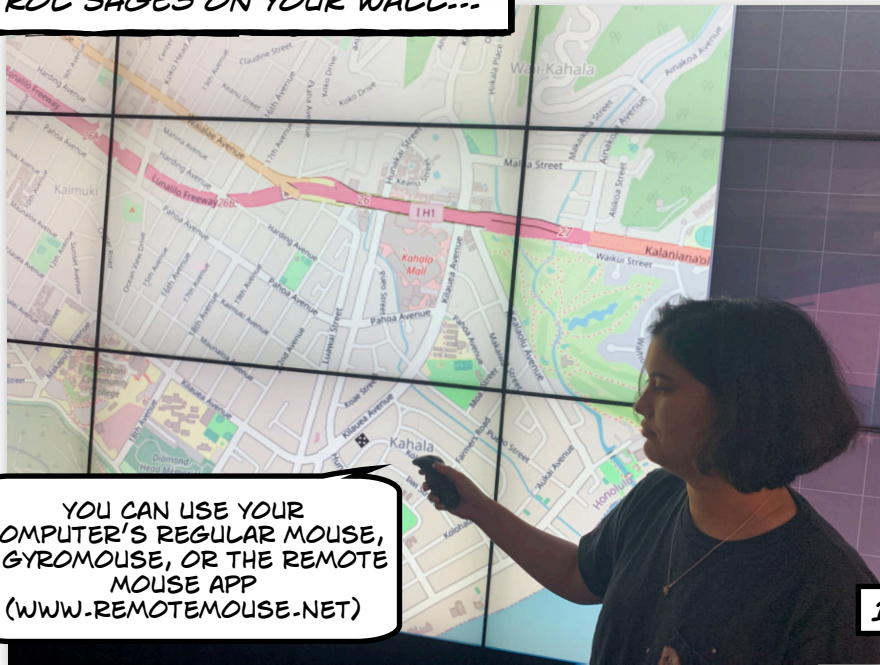


JUST INSTALL THE SAGE3 CLIENT APPLICATION ON THE COMPUTER DRIVING THE WALL, AND LAUNCH IT.



STRETCH THE SAGE3 WINDOW TO FILL THE WALL. YOU MAY ALSO CONSIDER USING ULTRAMON TO HELP MAXIMIZE YOUR DISPLAY.  
([WWW-REALTIMESOFT.COM/ULTRAMON](http://WWW-REALTIMESOFT.COM/ULTRAMON))

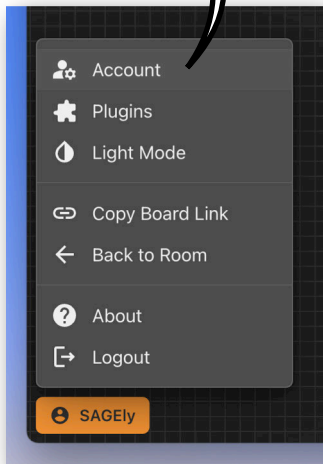
## CONTROL SAGES ON YOUR WALL...



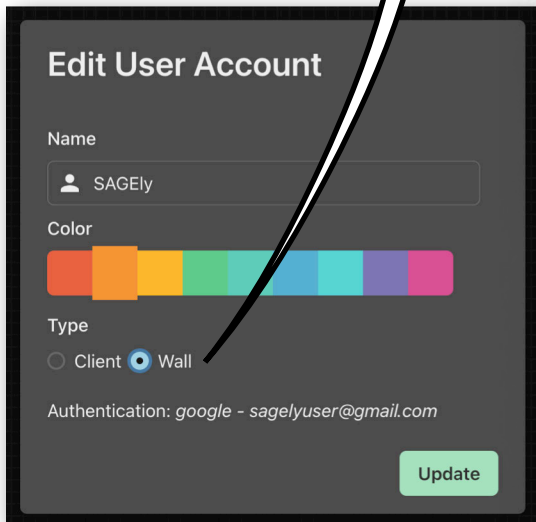
YOU CAN USE YOUR  
COMPUTER'S REGULAR MOUSE,  
A GYROMOUSE, OR THE REMOTE  
MOUSE APP  
([WWW.REMOTEMOUSE-NET](http://WWW.REMOTEMOUSE-NET))

# DESIGNATING THE CLIENT AS A "WALL"...

SELECT ACCOUNT



SELECT WALL



A BORDER WILL  
APPEAR TO OTHER  
USERS SO THEY  
CAN SEE THE  
VISIBLE AREA OF  
THE WALL.

The screenshot shows a digital workspace with a dark grid background. On the left, a control panel titled "Main Room: Main Board" contains icons for navigation, user management, grid view, folder, document, and edit. In the center, a yellow box says "Welcome to SAGE3". To the right is a map of a coastal region. Below the map is a video feed of a meeting room with people seated around tables. At the bottom left, a pink name tag identifies "Jason Leigh". At the bottom right, a name tag identifies "SAGEly User". The SAGE3 logo is in the bottom right corner.

# WORKING WITH SAGE'S VERSION OF COMPUTATIONAL NOTEBOOKS...

The image shows a sequence of steps in the Sage Kernel Dashboard interface:

- Step 1:** The 'Applications' sidebar is open, and 'KernelDashboard' is selected.
- Step 2:** The 'KernelDashboard' window is open, showing a table of existing kernels and a 'Create New Kernel' button.
- Step 3:** A 'Create New Kernel' dialog box is shown, with 'Private' selected for visibility and 'Python' for the kernel type.
- Step 4:** A code editor window is open with the following code:

```
1 import pylab.pyplot as plt
2 import pandas as pd
3
4 url = "https://archive.ics.uci.edu/ml/machine-learning-databases/titanic/train.csv"
5
6 # Using the appropriate delimiter to the column names
7 pd_names = ["survived", "survived", "survived", "survived", "survived"]
8
9 df = pd.read_csv(url, names = pd_names)
10
11 fig = plt.scatter_matrix(df, dimensions=["survived", "survived", "survived", "survived", "survived"])
12
13 plt.show()
```
- Step 5:** The code is executed, resulting in a scatter plot matrix showing relationships between variables like 'survived', 'survived', 'survived', 'survived', and 'survived'.

Below the interface, a list of steps is provided:

1. Open Kernel Dashboard
2. Create a New Kernel
3. Create SAGE Cells
4. Enter code into SAGE Cells
5. Run code in cells

**NEW**

FOR MORE HELP VISIT...

**TINYURL.COM/SAGECOMMUNITY**

SAGE3 IS MADE POSSIBLE BY THE FOLLOWING  
NATIONAL SCIENCE FOUNDATION AWARDS:

2004014 (UNIVERSITY OF HAWAII AT MANOA),  
2003800 (UNIVERSITY OF ILLINOIS AT CHICAGO),  
2003387 (VIRGINIA TECH)

