

Campus Mate

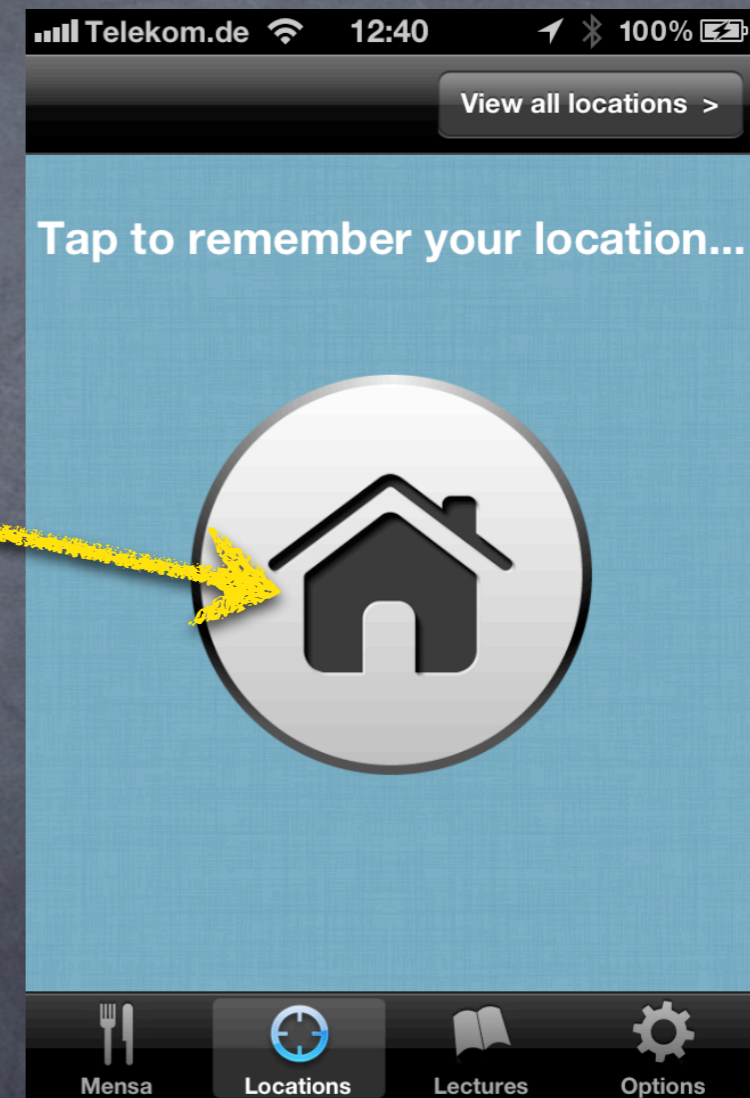
Second Presentation

Use cases

- You are at a nice location and want to save it

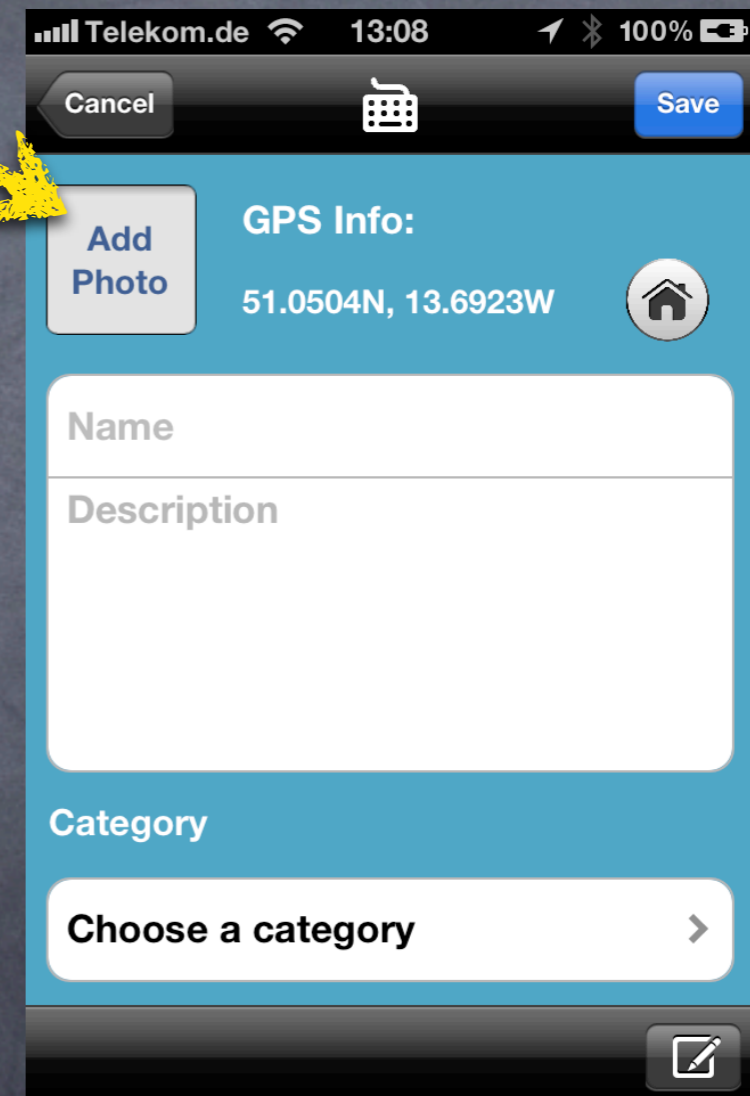
Start screen

- Quickly remember a new location



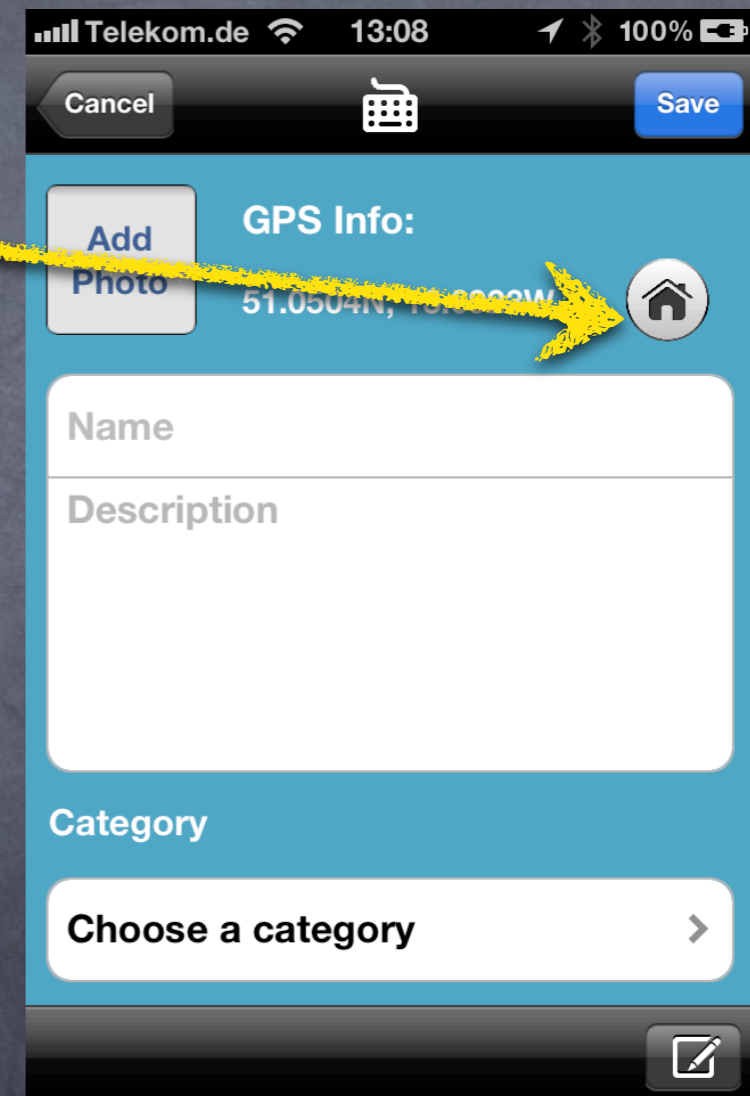
Remember a new location

- Add a photo (either take a new one or from camera roll)



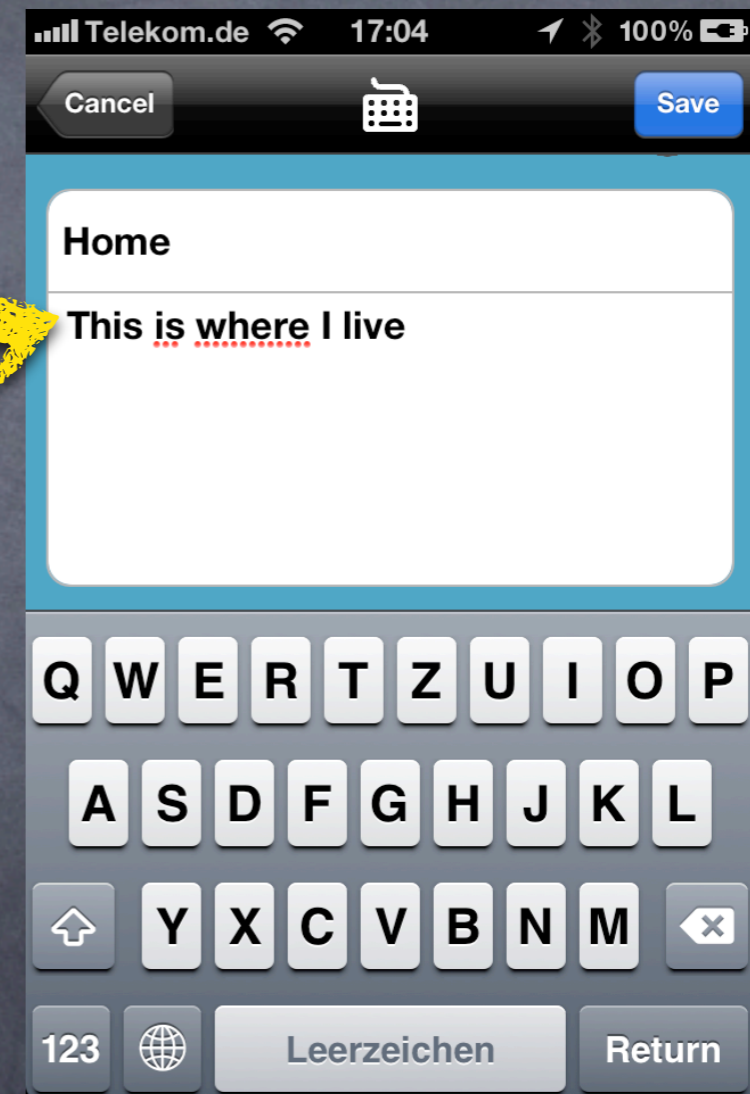
Remember a new location

- Add a photo (either take a new one or from camera roll)
- Re-adjust geo information to your current location



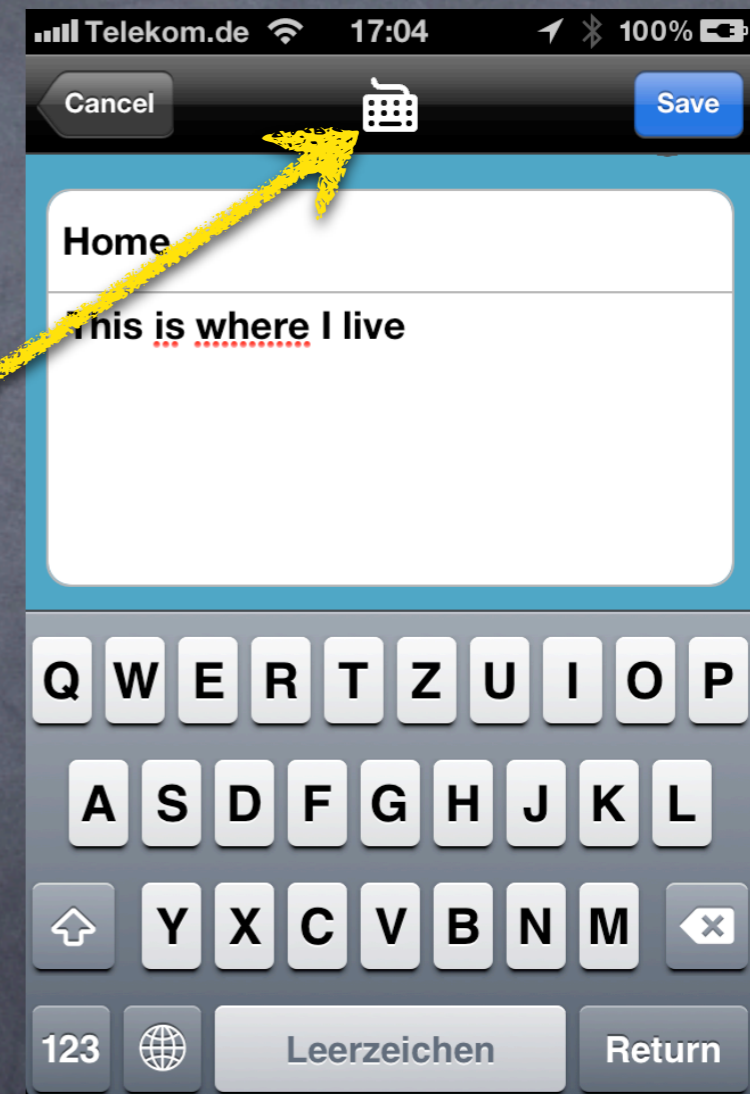
Remember a new location

- Add a photo (either take a new one or from camera roll)
- Re-adjust geo information to your current location
- Enter a name and description



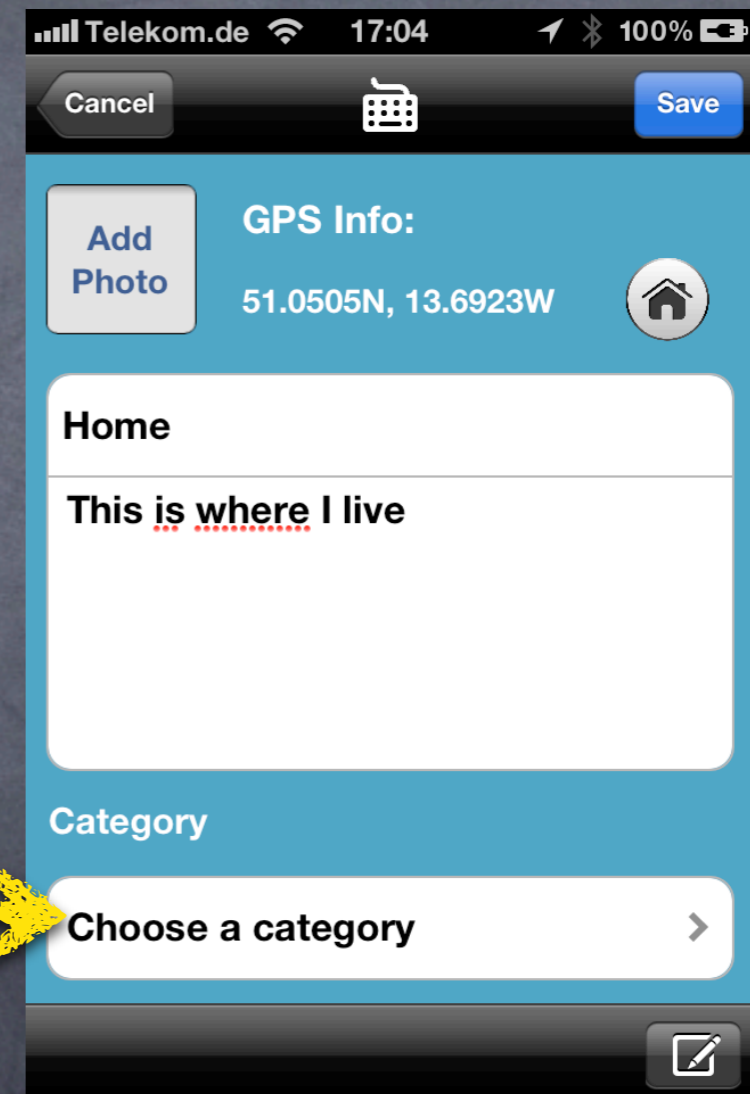
Remember a new location

- Add a photo (either take a new one or from camera roll)
- Re-adjust geo information to your current location
- Enter a name and description
- Resign the keyboard after you are done typing



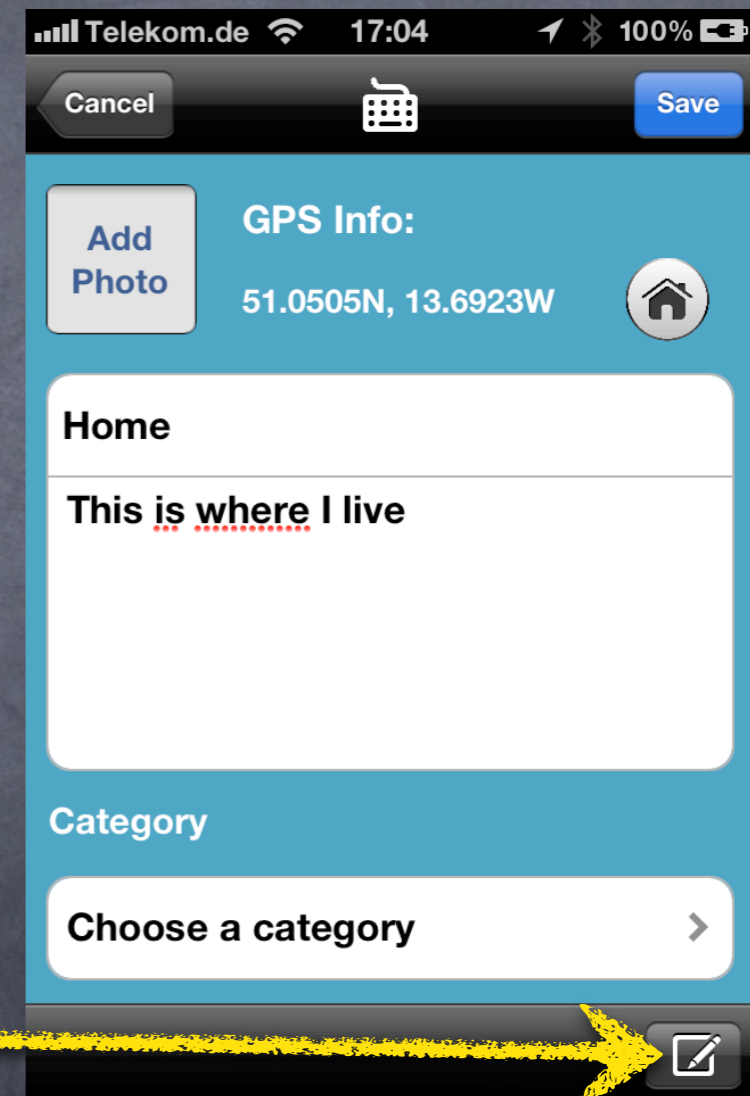
Remember a new location

- Add a photo (either take a new one or from camera roll)
- Re-adjust geo information to your current location
- Enter a name and description
- Resign the keyboard after you are done typing
- Choose a category



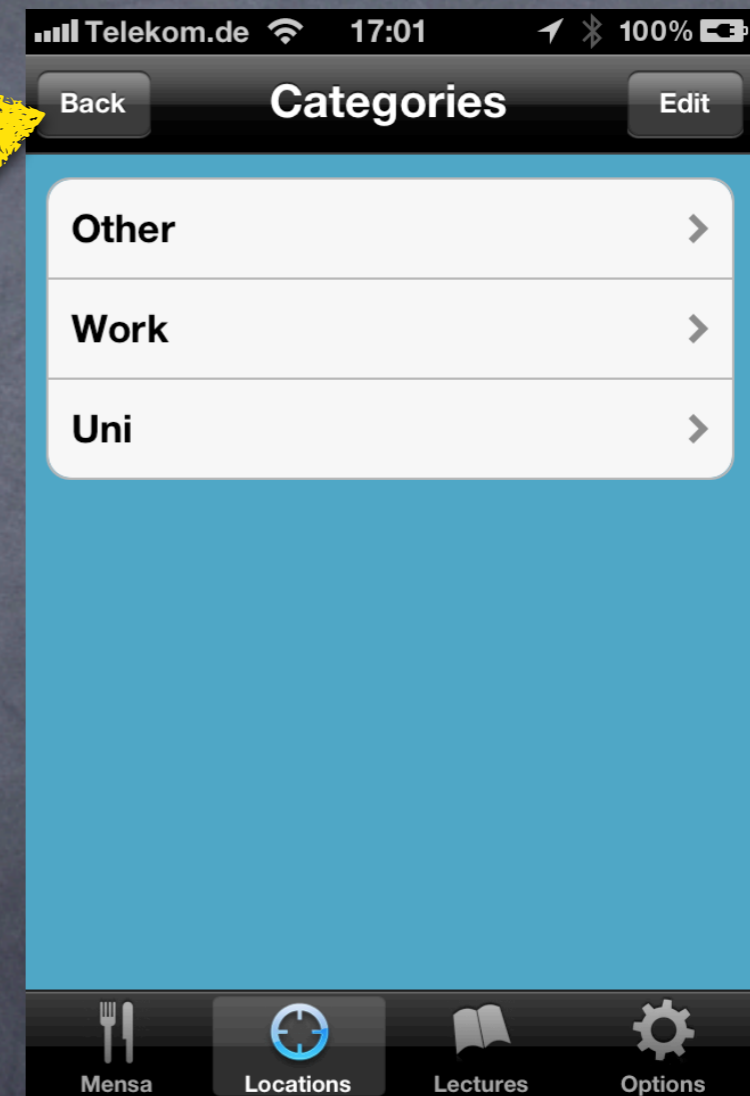
Remember a new location

- Add a photo (either take a new one or from camera roll)
- Re-adjust geo information to your current location
- Enter a name and description
- Resign the keyboard after you are done typing
- Choose a category
- Share the location (eMail or Twitter)



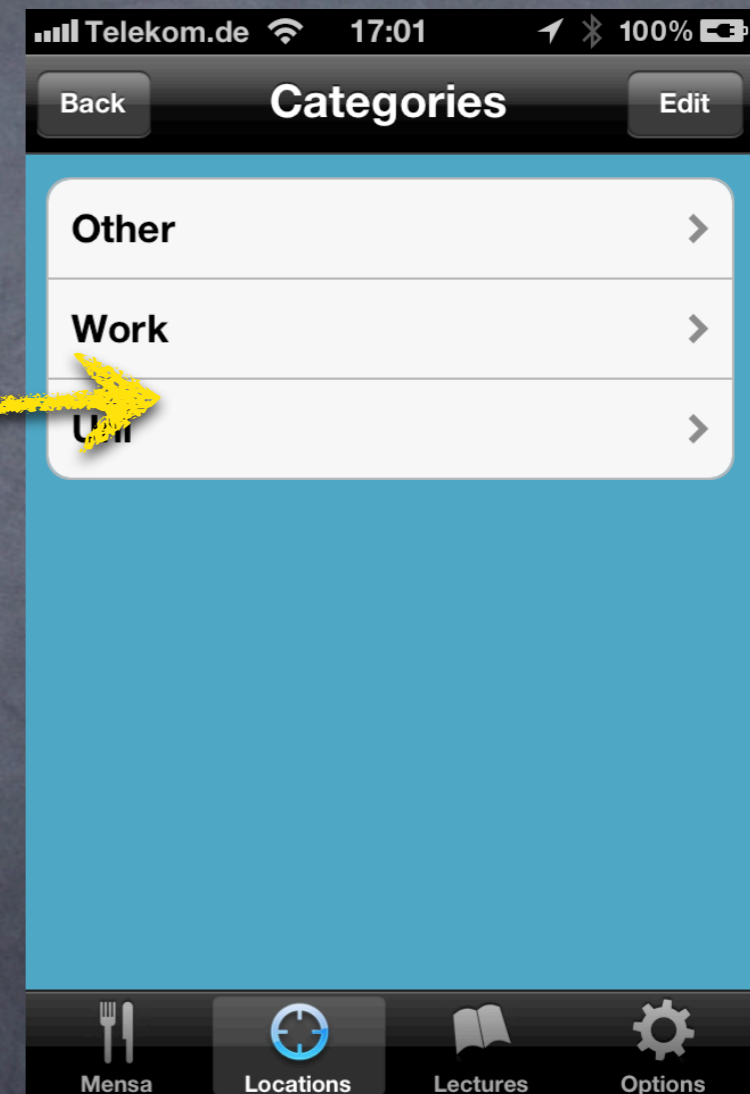
Choose a category

- Go back without any assigning



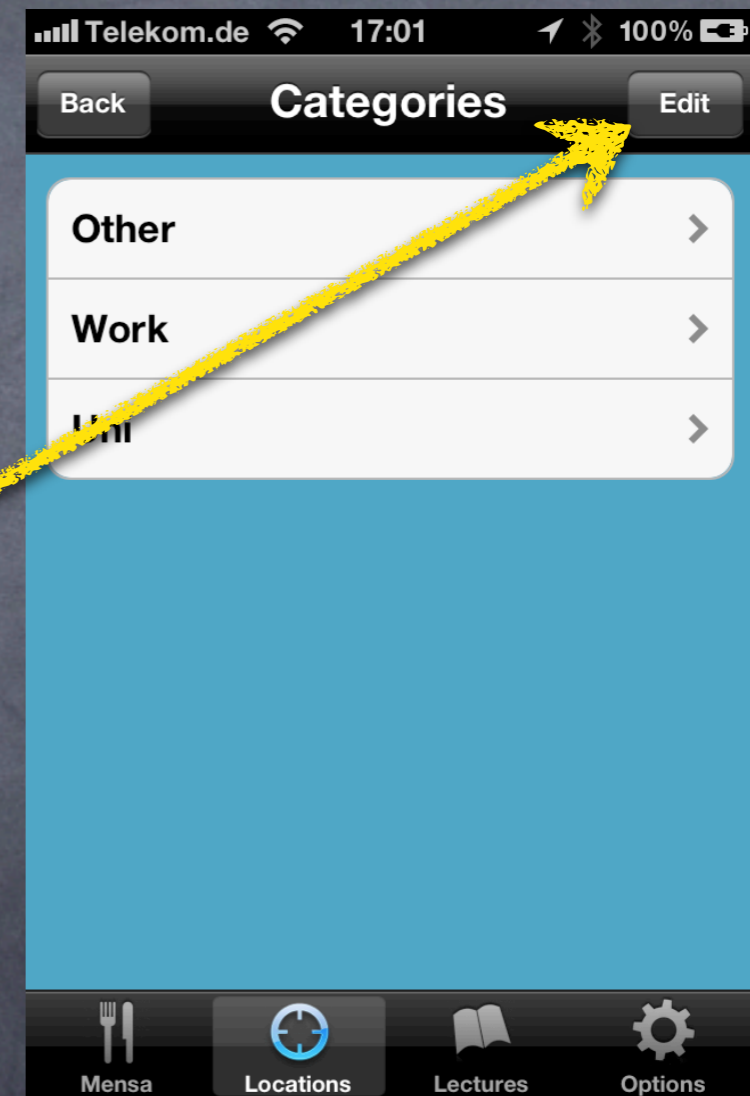
Choose a category

- Go back without any assigning
- Choose an existing category by tapping on the row



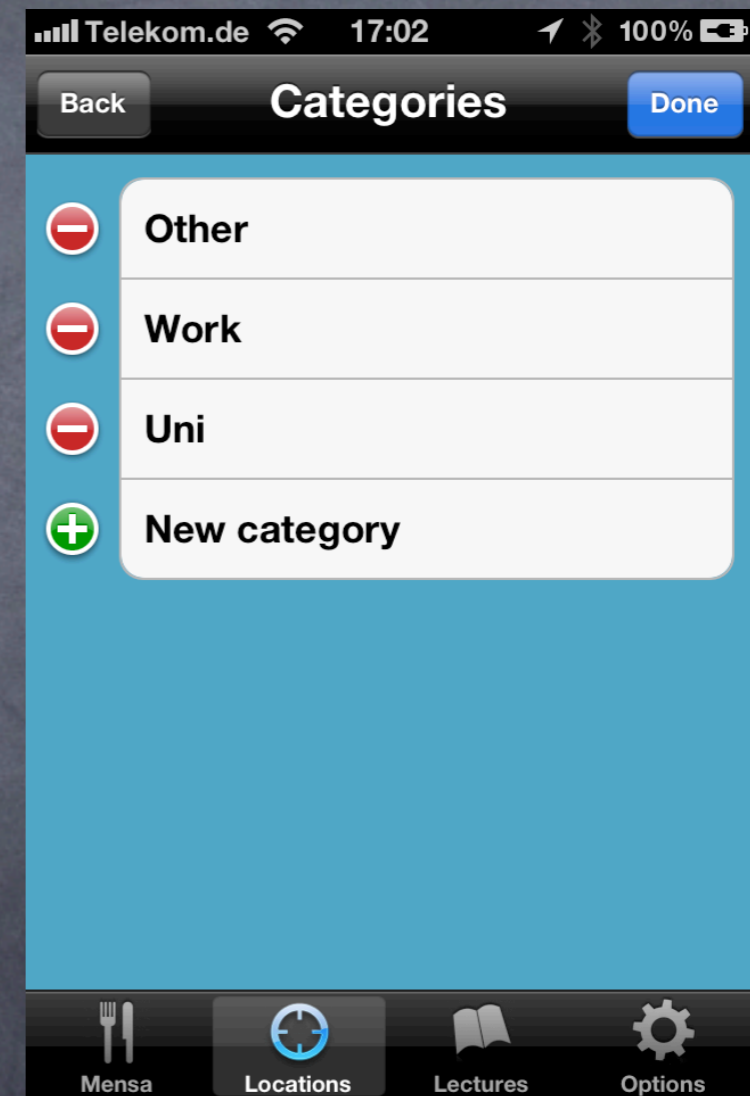
Manage categories

- Go back without any assigning
- Choose an existing category by tapping on the row
- Tap edit to delete, add or edit an existing category



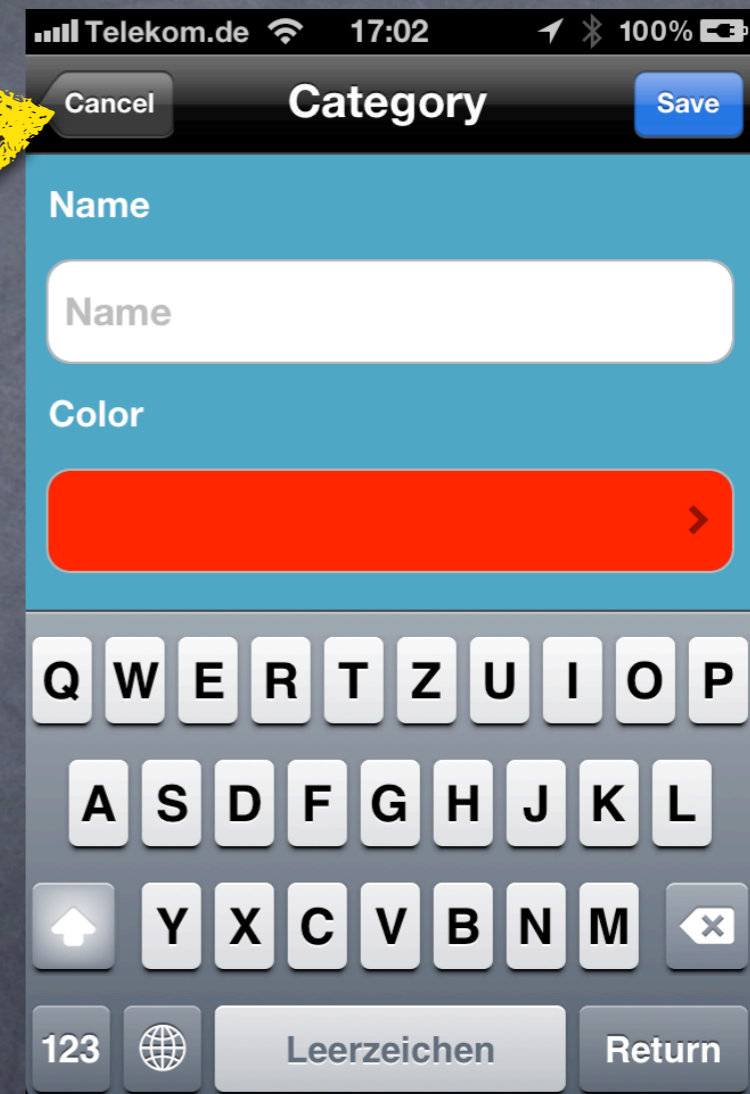
Manage categories

- Go back without any assigning
- Choose an existing category by tapping on the row
- Tap edit to delete, add or edit an existing category



Create or edit a category

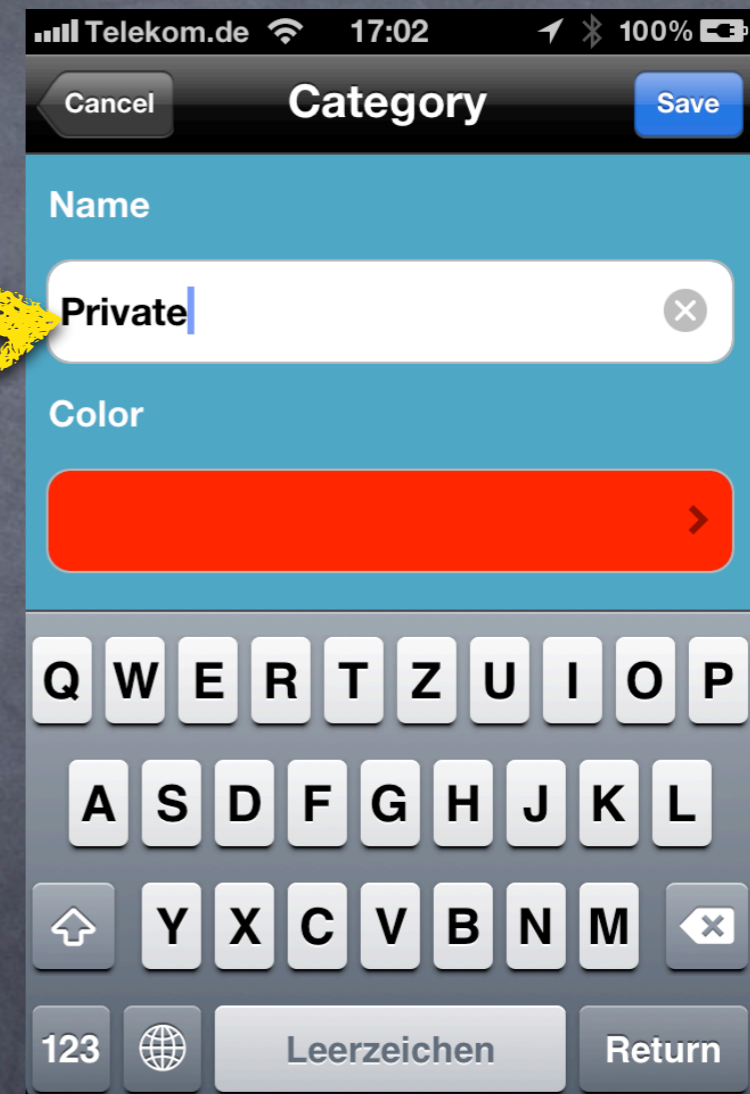
- Cancel without a change



The screenshot shows an iPhone interface for creating or editing a category. At the top, the status bar displays 'Telekom.de', signal strength, Wi-Fi, time '17:02', location, Bluetooth, and '100%' battery. Below the status bar is a navigation bar with a 'Cancel' button on the left, the title 'Category' in the center, and a 'Save' button on the right. A yellow arrow points from the 'Cancel' button to the text 'Cancel without a change' in the list to the left. The main form area has a light blue background and contains two sections: 'Name' with a white text input field containing the placeholder 'Name', and 'Color' with a red color picker bar and a right-pointing chevron. At the bottom, a standard QWERTY keyboard is visible, with keys for '123', a globe icon, 'Leerzeichen', and 'Return'.

Create or edit a category

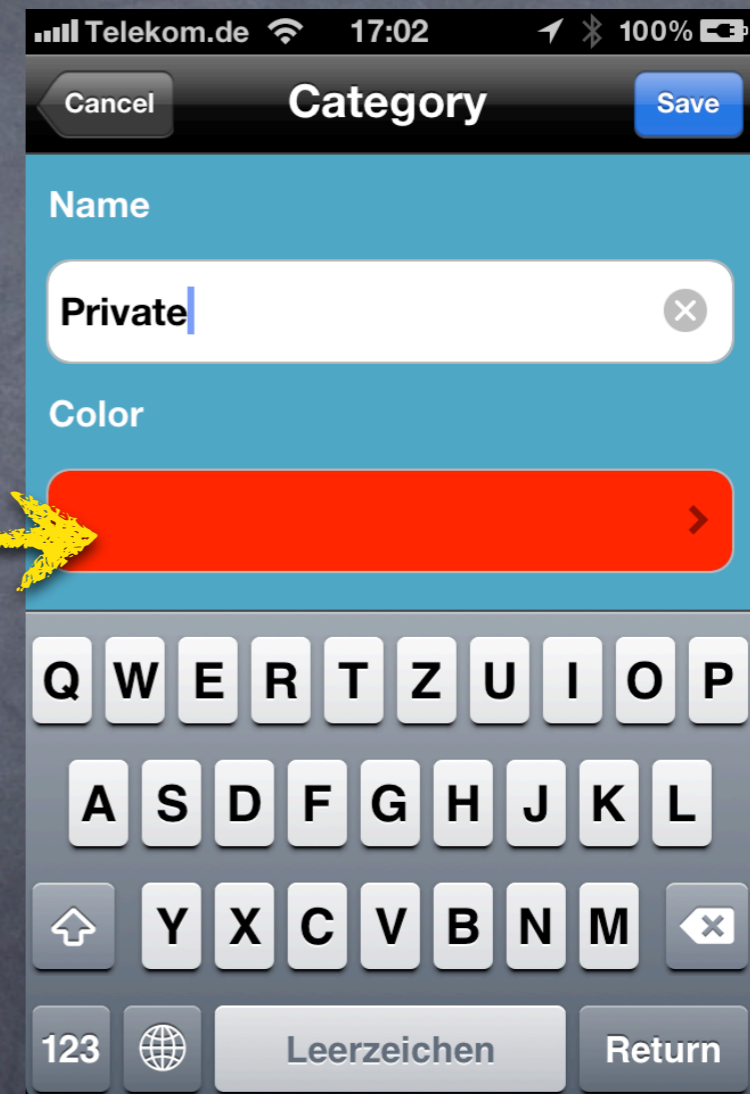
- Cancel without a change
- Add or edit a name



The screenshot shows an iPhone interface for creating or editing a category. At the top, there is a status bar with 'Telekom.de', signal strength, Wi-Fi, time '17:02', location, Bluetooth, and '100%' battery. Below the status bar is a navigation bar with a 'Cancel' button on the left, the title 'Category' in the center, and a 'Save' button on the right. The main form area has a light blue background. It contains a 'Name' label above a text input field with the text 'Private' and a clear button (an 'x' in a circle) on the right. Below the name field is a 'Color' label above a red color picker bar with a right-pointing arrow. At the bottom of the screen is a standard QWERTY keyboard with German characters like 'Leerzeichen' and 'Return'.

Create or edit a category

- Cancel without a change
- Add or edit a name
- Choose a (different) color



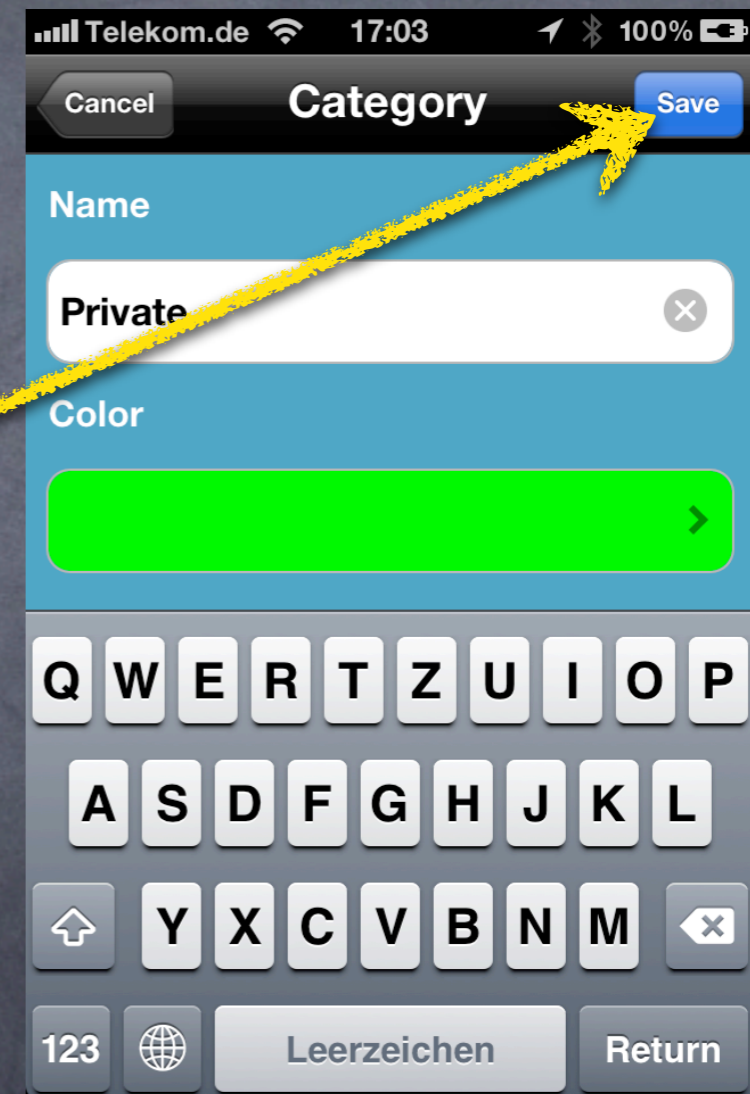
Choose a color

- Go back without any change
- Choose a color



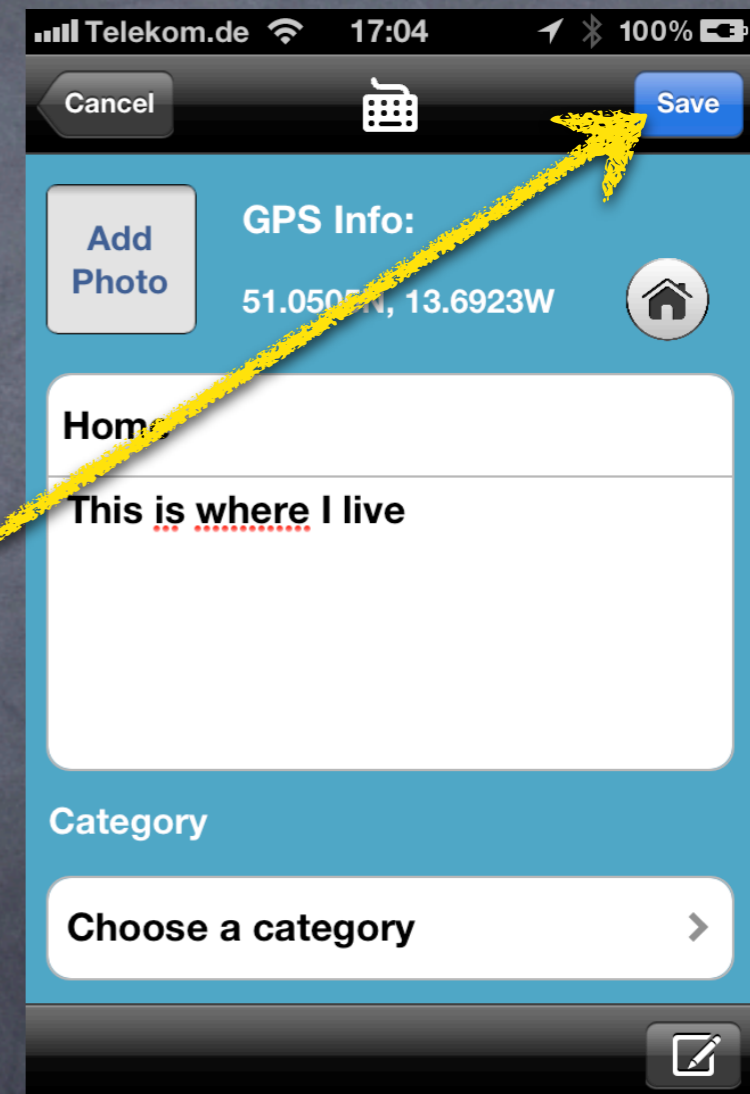
Create or edit a category

- Cancel without a change
- Add or edit a name
- Choose a (different) color
- Save the changes



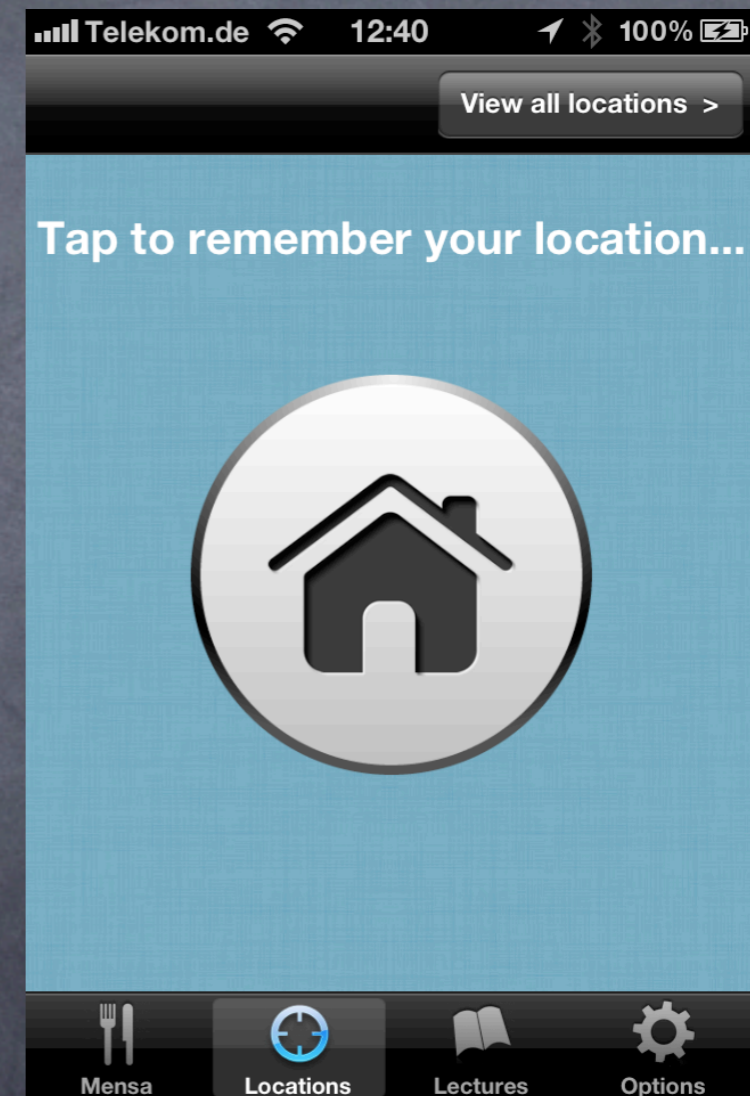
Remember a new location

- Add a photo (either take a new one or from camera roll)
- Re-adjust geo information to your current location
- Enter a name and description
- Resign the keyboard after you are done typing
- Choose a category
- Save the location



Start screen

- Done ;-)

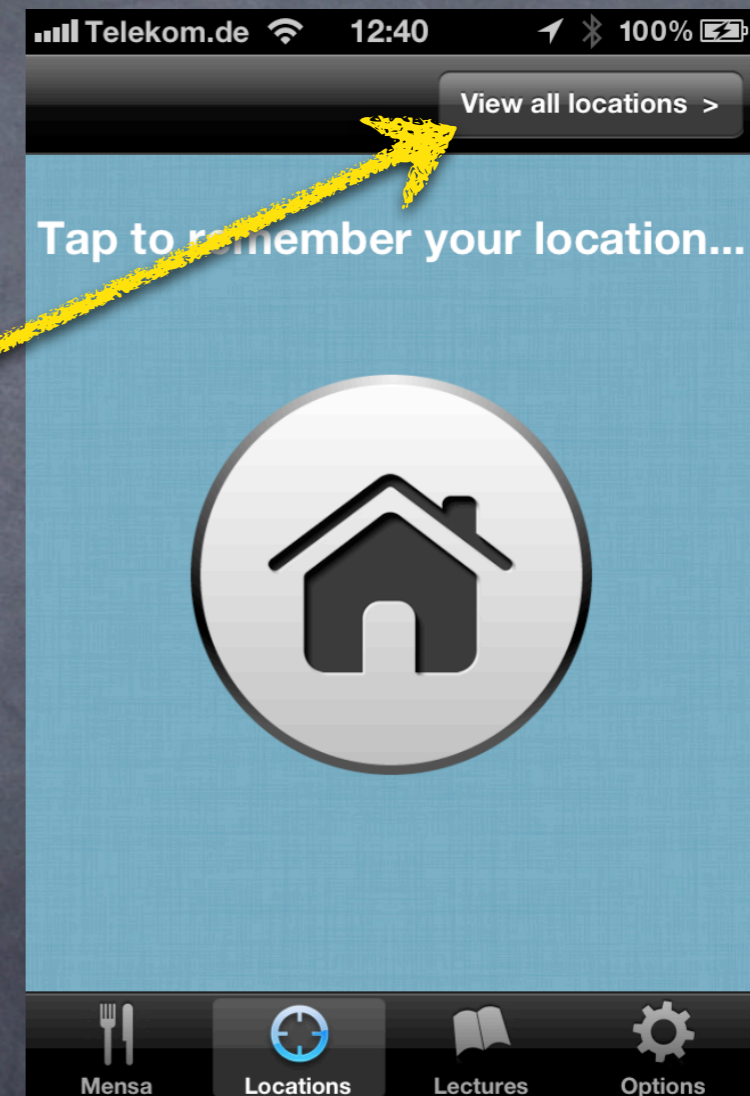


Use cases

- You are at a nice location and want to save it
- You want to view all your saved locations on a map

Start screen

- View all your saved locations



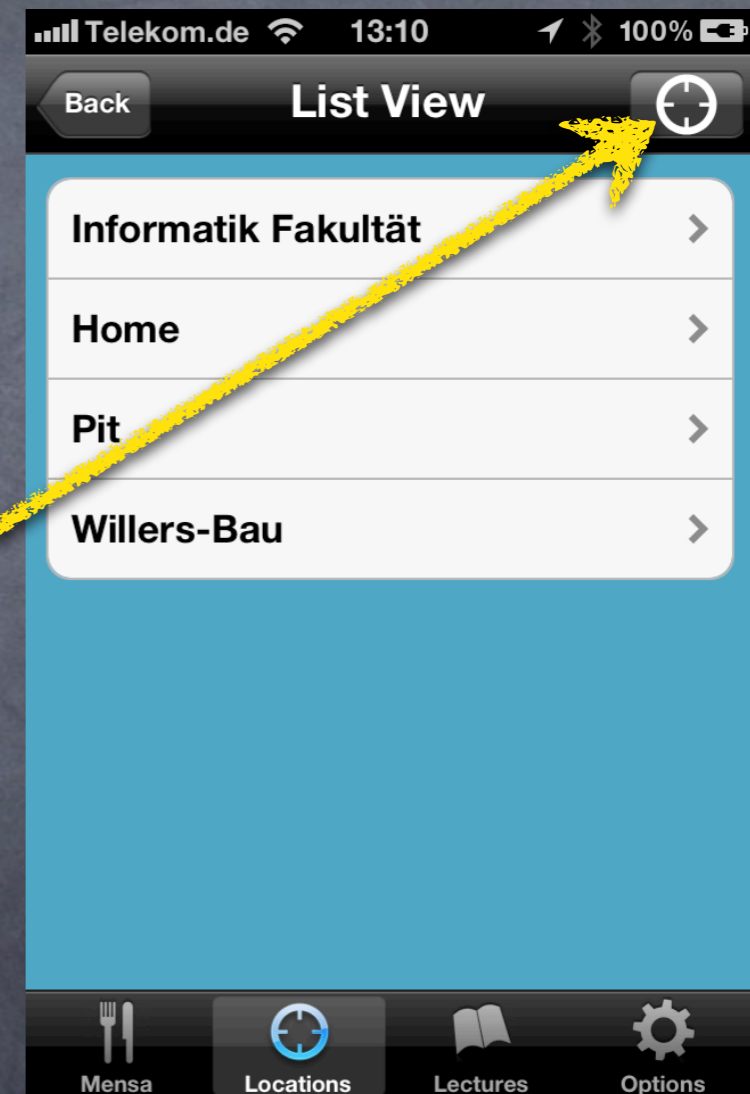
View locations as a list

- Choose a location to come to the detail view of that location where you can edit its information



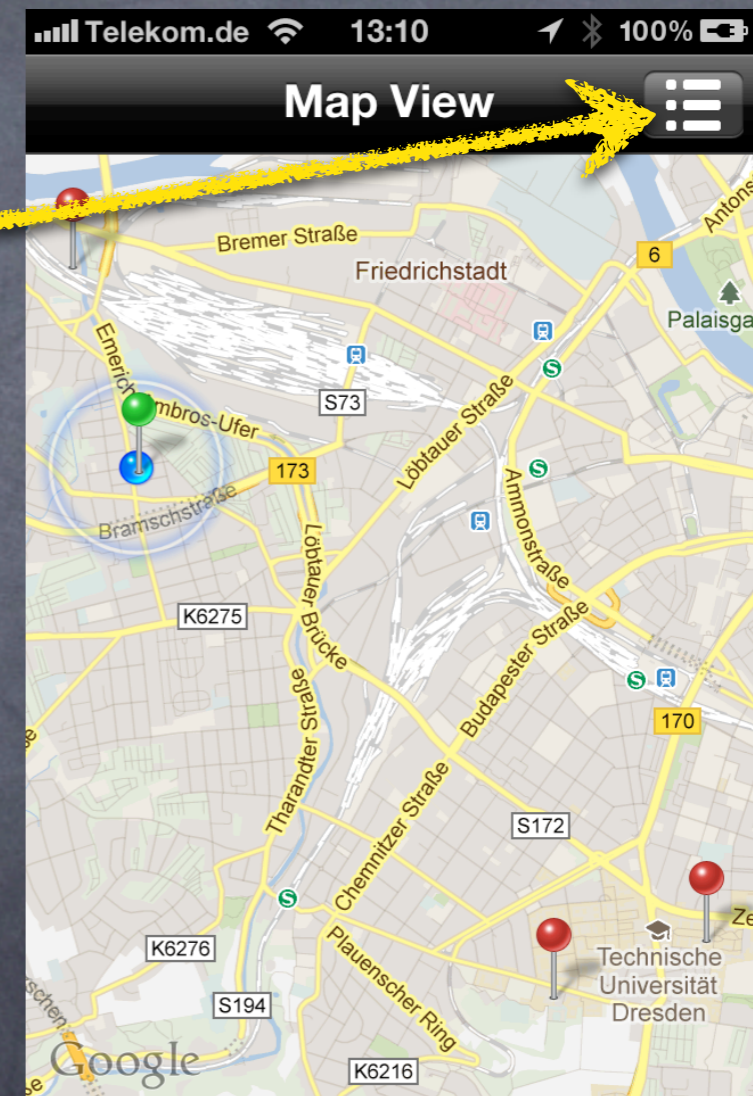
View locations as a list

- Choose a location to come to the detail view of that location where you can edit its information
- Tap on the upper right button to bring the map view to the front



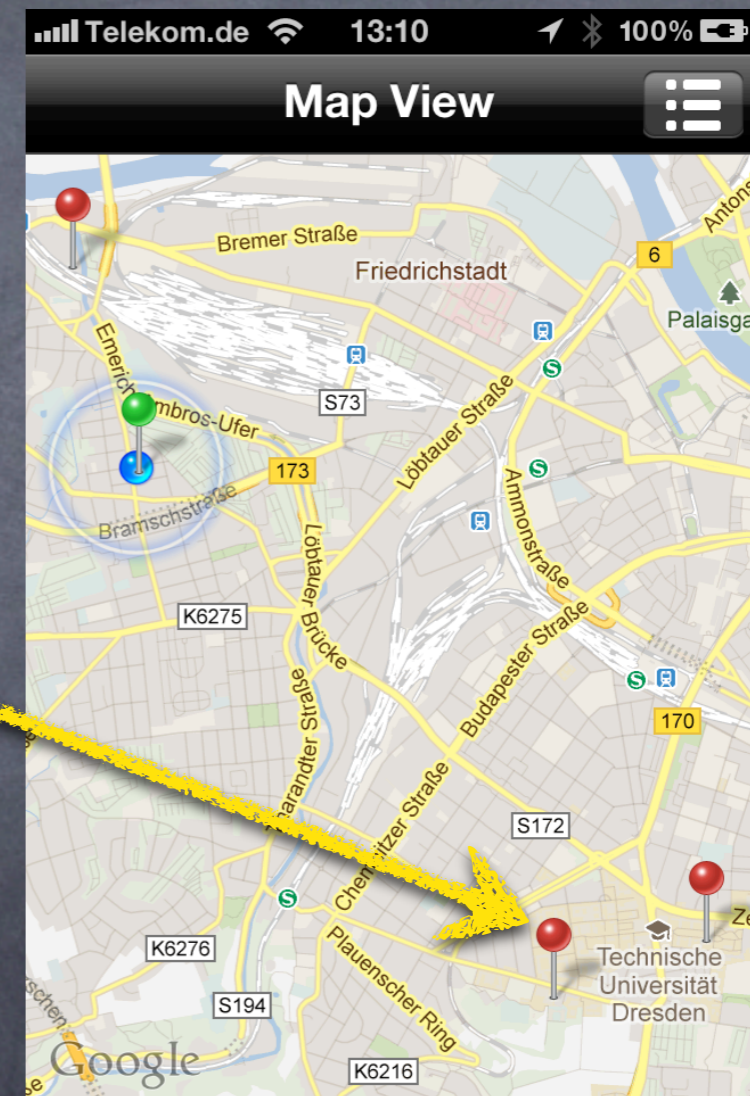
View locations as a map

- Tap on the upper right button to switch back to list view



View locations as a map

- Tap on the upper right button to switch to list view
- Tap on a pin to bring up its annotation



View locations as a map

- Tap on the upper right button to switch to list view
- Tap on a pin to bring up its annotation



View locations as a map

- Tap on the upper right button to switch to list view
- Tap on a pin to bring up its annotation
- The little arrow button brings up the corresponding detail view

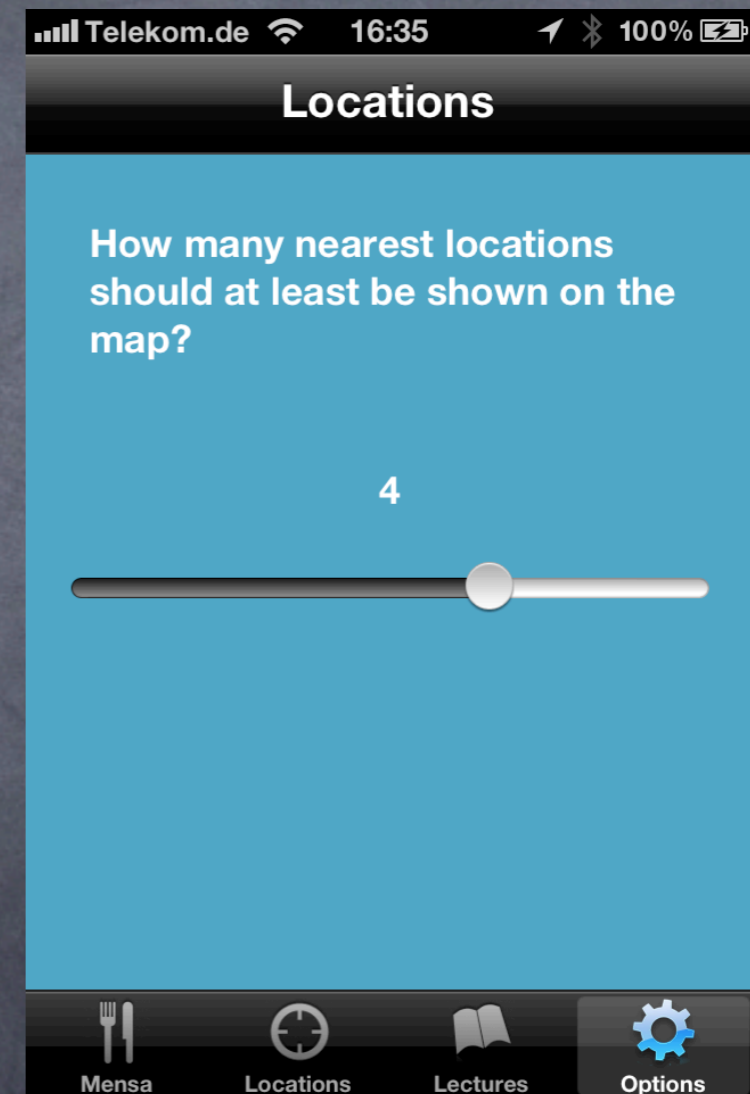


Use cases

- You are at a nice location and want to save it
- You want to view all your saved locations on a map
- You like to change the number of locations on the map

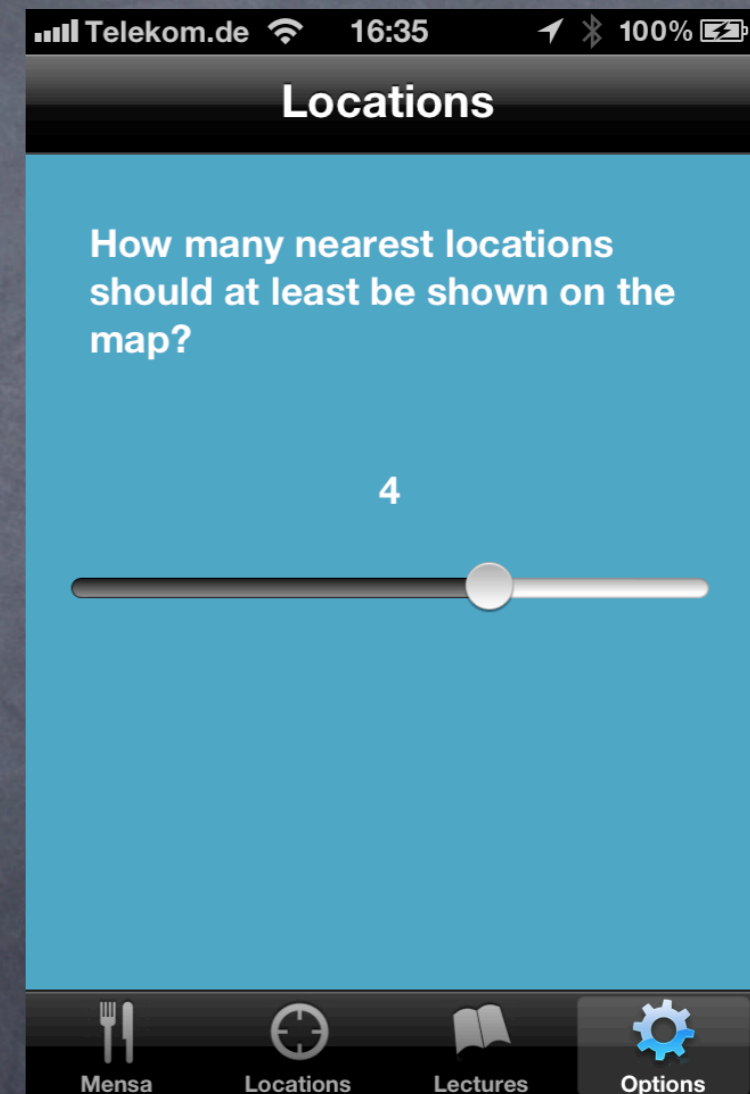
Options module

- You can specify how many locations you want to see in map view



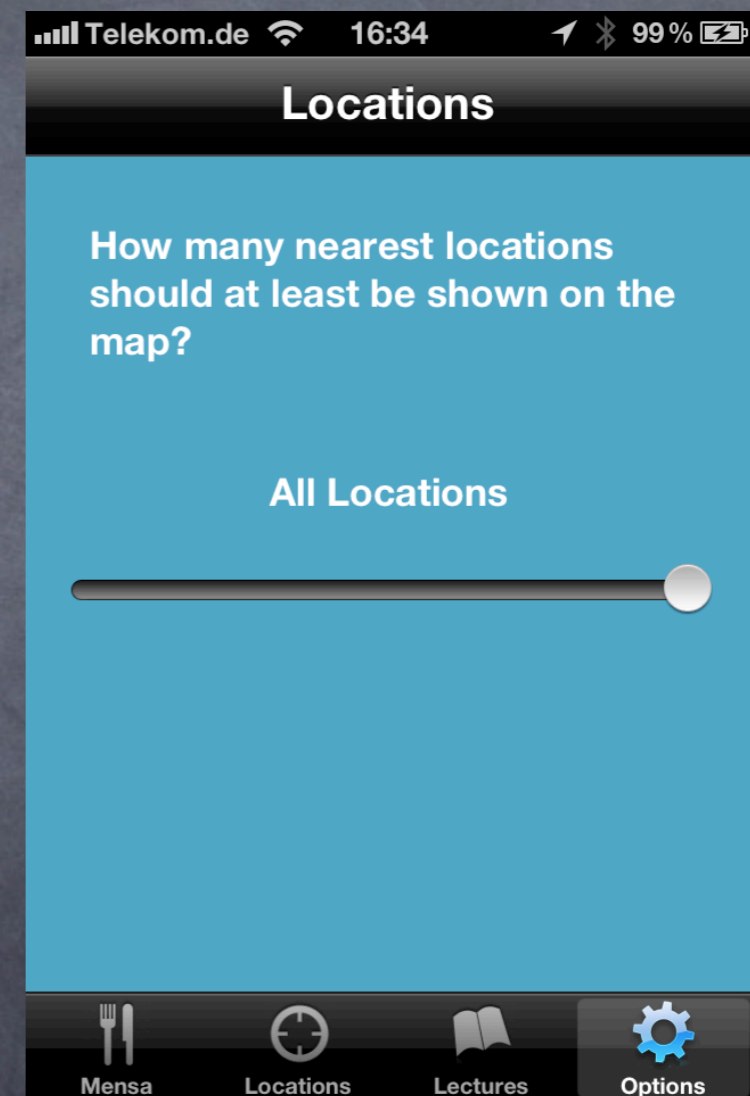
Options module

- You can specify how many locations he wants to see in map view
- The slider allows all values from zero to the number of your saved locations



Options module

- You can specify how many locations he wants to see in map view
- The slider allows all values from zero to the number of your saved locations
- And additionally „All Locations“ which always sets the number of locations to max

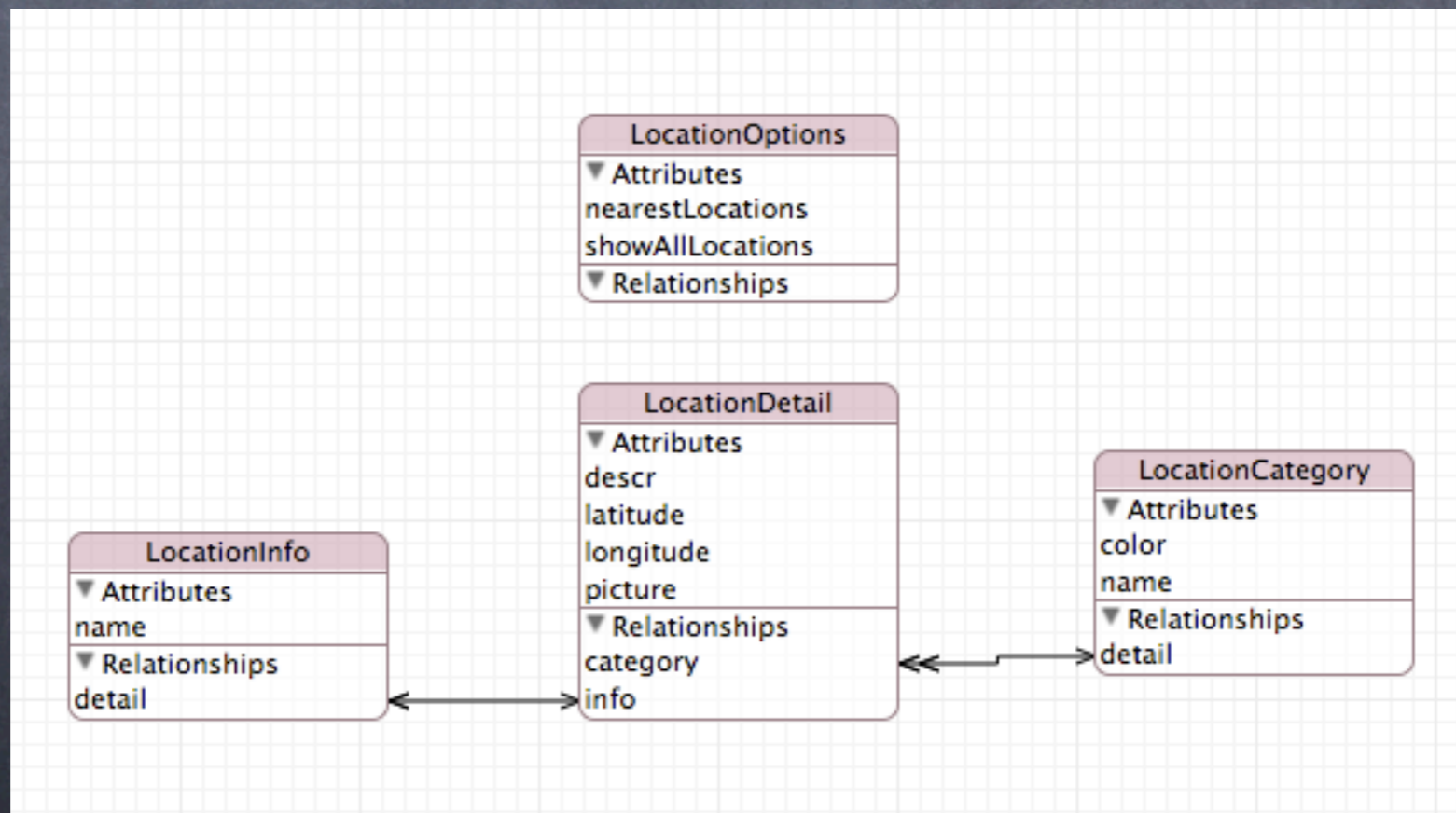


Technologies

- Core Data
- Core Location
- 3DAR-Toolkit
- Twitter

Core Data

- required for persistence
- allows to keep data between sessions / app crashes



Core Location

- In the framework exists a location manager
- sends location updates to its delegate (my location controller)
- the latest update is saved and can be accessed from everywhere in the app via a singleton pattern

Challenges

- Usability
- Ressource restriction
- Heterogeneity

Usability

Many small things like:

- Resign keyboard button
- memorizable icons
- custom TextField with placeholder text
-

Resource restriction

- fetching only the name from the database to scroll through the locations (should be performant even with thousands of locations)
- small display with only very few information per screen
- Mensa module still open (scraping info from website)

Heterogeneity

- different views on the same data: list view and map view of the locations – augmented reality to come ...
- different user preferences: options module, page view with one page for every module

Open tasks

- Camera views
- eMail, Twitter
- Augmented reality view of the locations
- Mensa module