Conversation API

Simple Example Case

(Bukkit 1.1-R6 +)

## Contents

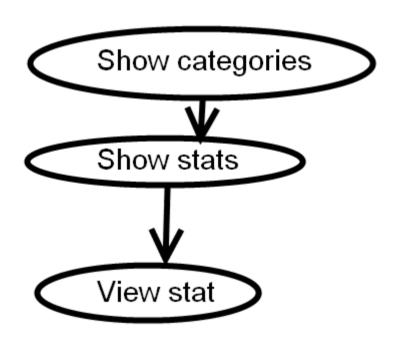
- Code from BeardStat's interactive mode, which is built on the Conversation API (from the previous slides).
- A more detailed breakdown of each part of a Prompt's methods.
- Screenshots of the output.

## Example - BeardStats

- To look at stats in game, you use the /stats command.
- To find a particular stat takes 3 commands
- /stats -c :: View all categories
- /stats -c blockdestroy :: view all stats in the blockdestroy category
- /stats blockdestroy.grass :: view the stat.
- Must be a better way to do so.

## Example – BeardStats Cont.d

- Step in conversations
- Simple 3 prompt graph.



# List Category prompt

```
listCategory = new ValidatingPrompt() {
   public String getPromptText(ConversationContext context) {
       CommandSender sender = (CommandSender)context.getForWhom();
       HashSet<String> cats = new HashSet<String>();
       for( PlayerStat ps :playerStatManager.getPlayerBlob(((Player)sender).getName()).getStats()){
           if(!cats.contains(ps.getCat())){
               cats.add(ps.getCat());
                                                            DO NOT CAST TO PLAYER
       String msg = "";
                                                           AND sendMessage()
       Iterator<String> it = cats.iterator();
       while(it.hasNext()){
                                                            IT WILL BE BLOCKED
           for (int i=0; i<10; i++) {</pre>
               if(it.hasNext()){
                  if (i>0) {msg+=", ";}
                  msg+=it.next();
           context.getForWhom().sendRawMessage(ChatColor.AQUA + msg);
           msq="";
       return "Select a category";
   @Override
   protected boolean isInputValid(ConversationContext context, String input) {
       Player sender = (Player)context.getForWhom();
       return playerStatManager.getPlayerBlob(sender.getName()).hasCat(input);
                                                                            Set session data for this
                                                                            User for use in the next
   MOverride
   protected Prompt acceptValidatedInput(ConversationContext context,
                                                                             Prompt.
           String input) {
       context.setSessionData("cat", input);
```

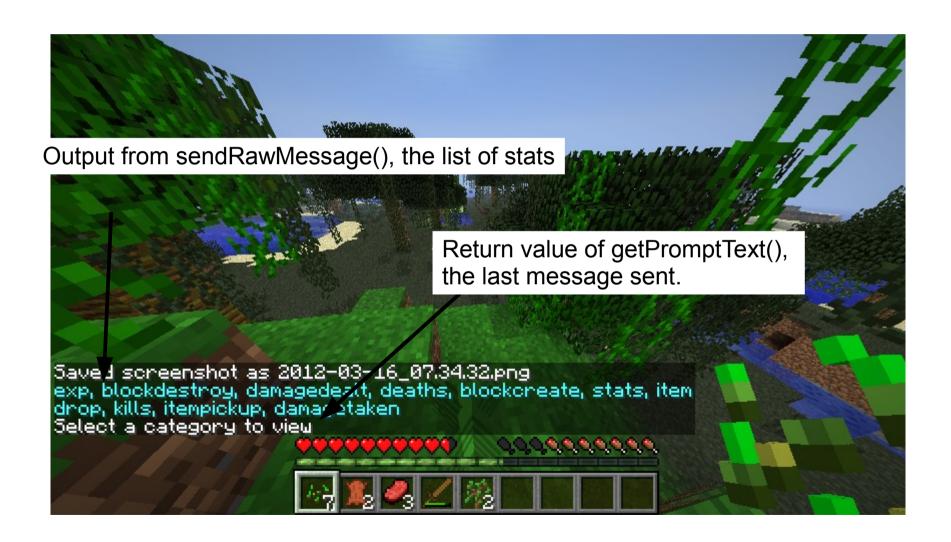
return ListStat:

);

# Breakdown - getPromptText()

- 1. Loop through and generate the list of categories to display.
- 2. Format and present to the user
- 3. Return the prompt to show them.

# Breakdown - getPromptText()



# Breakdown - isInputValid()

- 1. Checks if value is a valid category.
- 2. Returns true/false.
- 3. If false, getPromptText() is called again
- 4.If True, acceptValidInput()

# Breakdown - acceptValidInput()

- 1. Stores value in conversation session.
- 2. Provides the next prompt to move to.

# Breakdown – isInputValid() acceptValidInput()



Input from user, a valid category

AcceptValidInput() stores The value, moves to next Prompt.

#### List stat is the same as list category, Just a different data set.

## ViewStat

## Breakdown – view stat

- Declared as a MessagePrompt, since it only does output, not input.
- Read back the session data to find the stat to display
- 3) Display it through getPromptText()
- 4)Points to a BooleanPrompt.

## Breakdown – view stat



# BooleanPrompt

- Final prompt in the tree.
- Asks user if they wish to search another stat.
- On true, provide listCategory stat
- On false, end conversation (return null)
- BooleanPrompt provides the code for isValidInput() (has a built in list of valid data, yes,no true, false etc)

## BooleanPrompt



### code

The code for the prompts can be found here

https://github.com/tehbeard/BeardStat/tree/version/0.4-grapefruit/src/main/java/me/tehbeard/BeardStat/commands/interactive

It has changed since writing these slides, but the core of it is still there (just separated out into separate classes rather then a big blob of code).

## Next time

- A step be step tutorial.
  - Time to give villagers a voice.
  - Demonstrate the flexibility of the Conversation API.
- Comments, questions, your own code samples.
   Use the thread and help provide a rich source of knowledge for fellow Bukkit plugin devs