



Sugar Tutorial

Christopher Blizzard

January 17th, 2007

linux.conf.au

I am not the programmer
you are looking for.



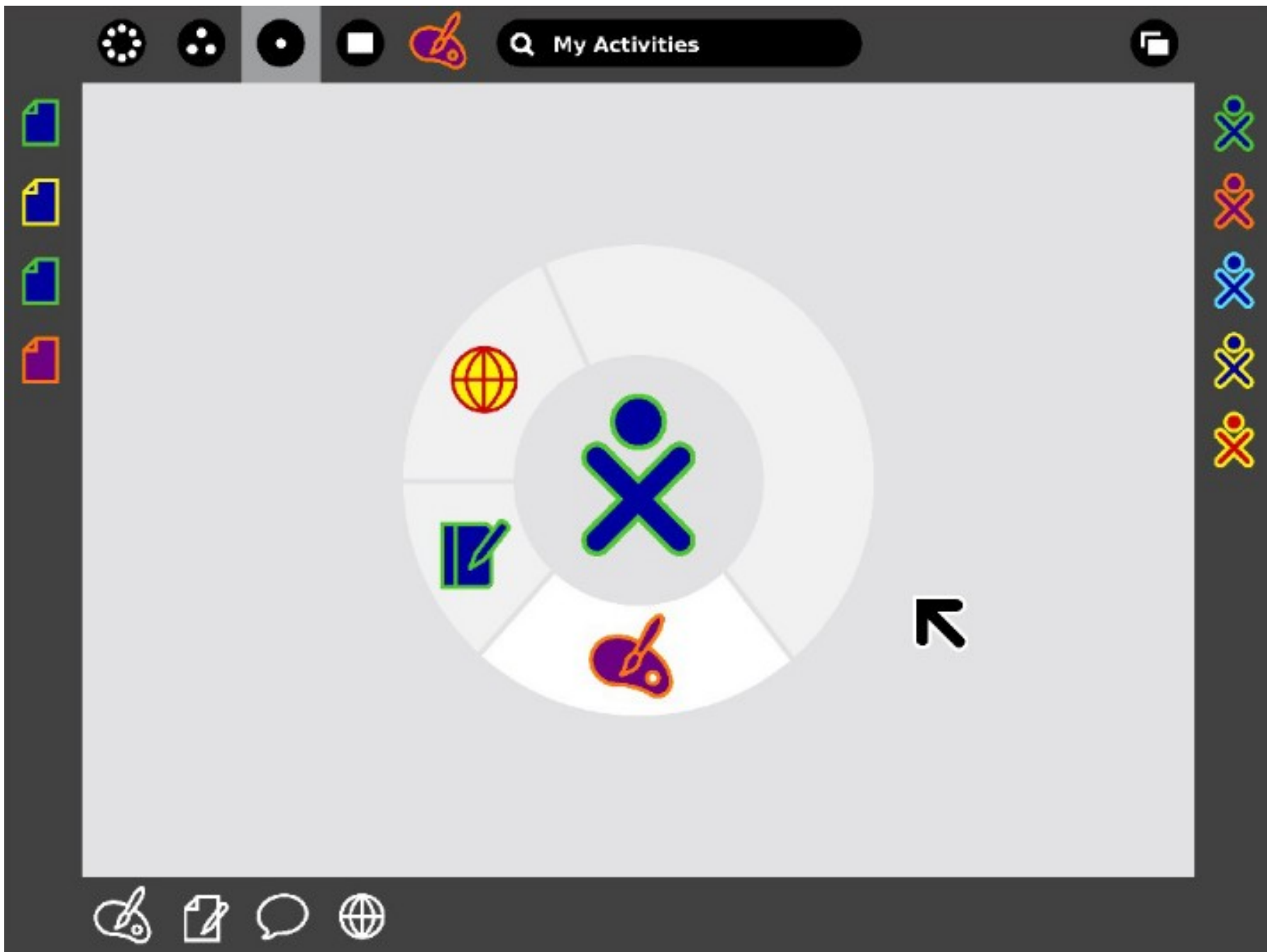


Limitations

Power

Connectivity

Graphics





Take-Home

Technical Choices

Language Wars

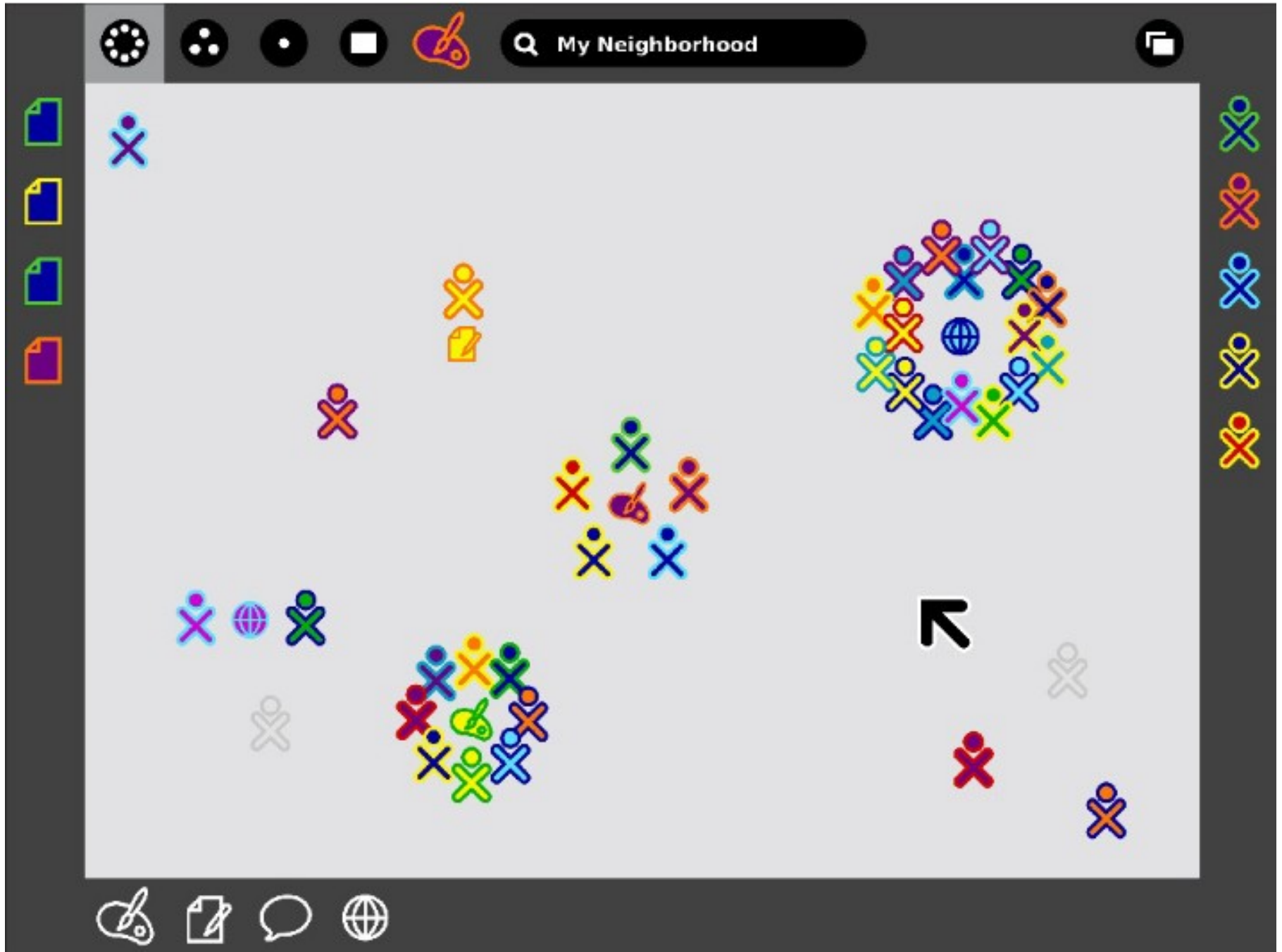
Python (for now...)

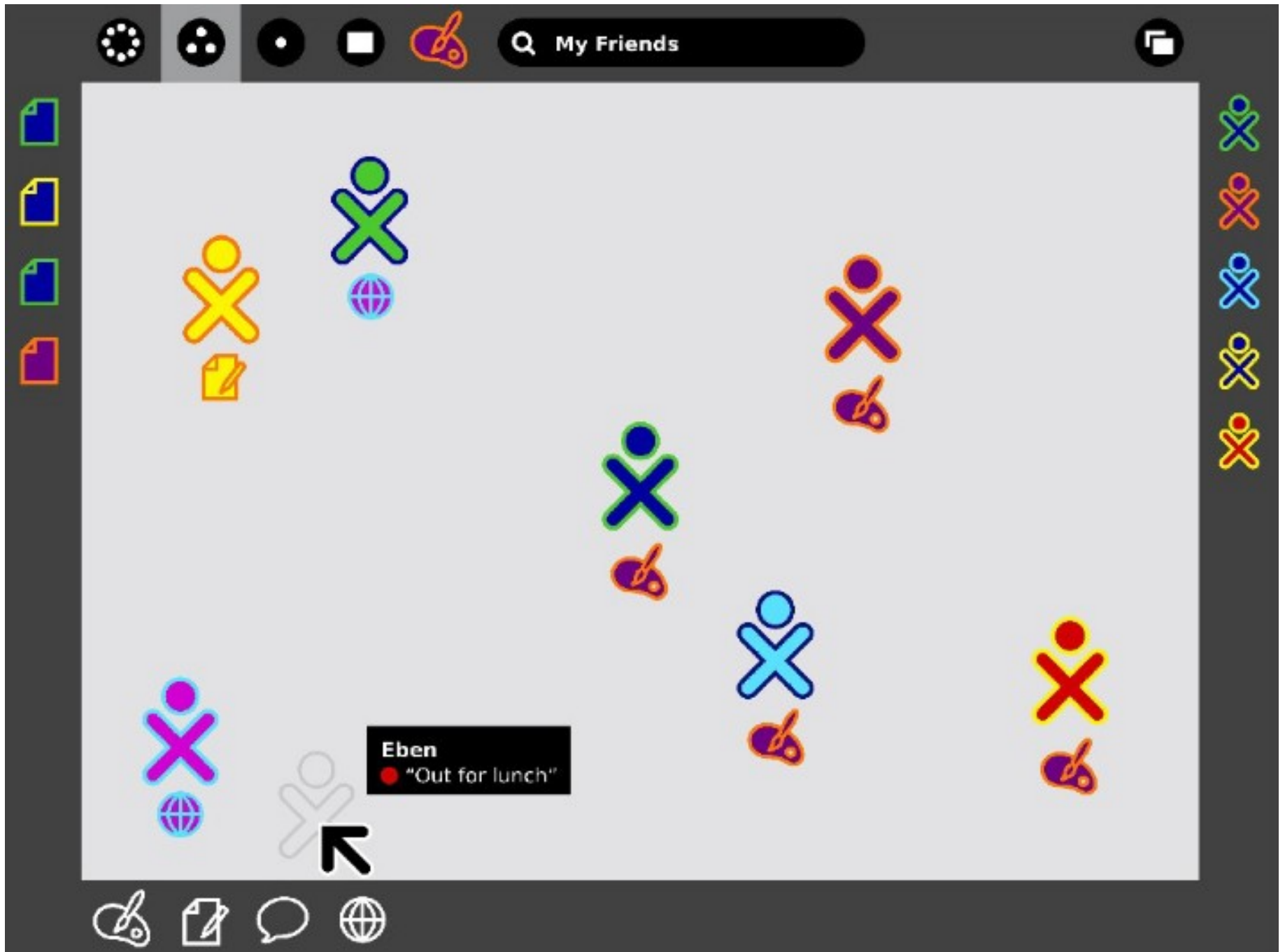
Service Discovery and Activation

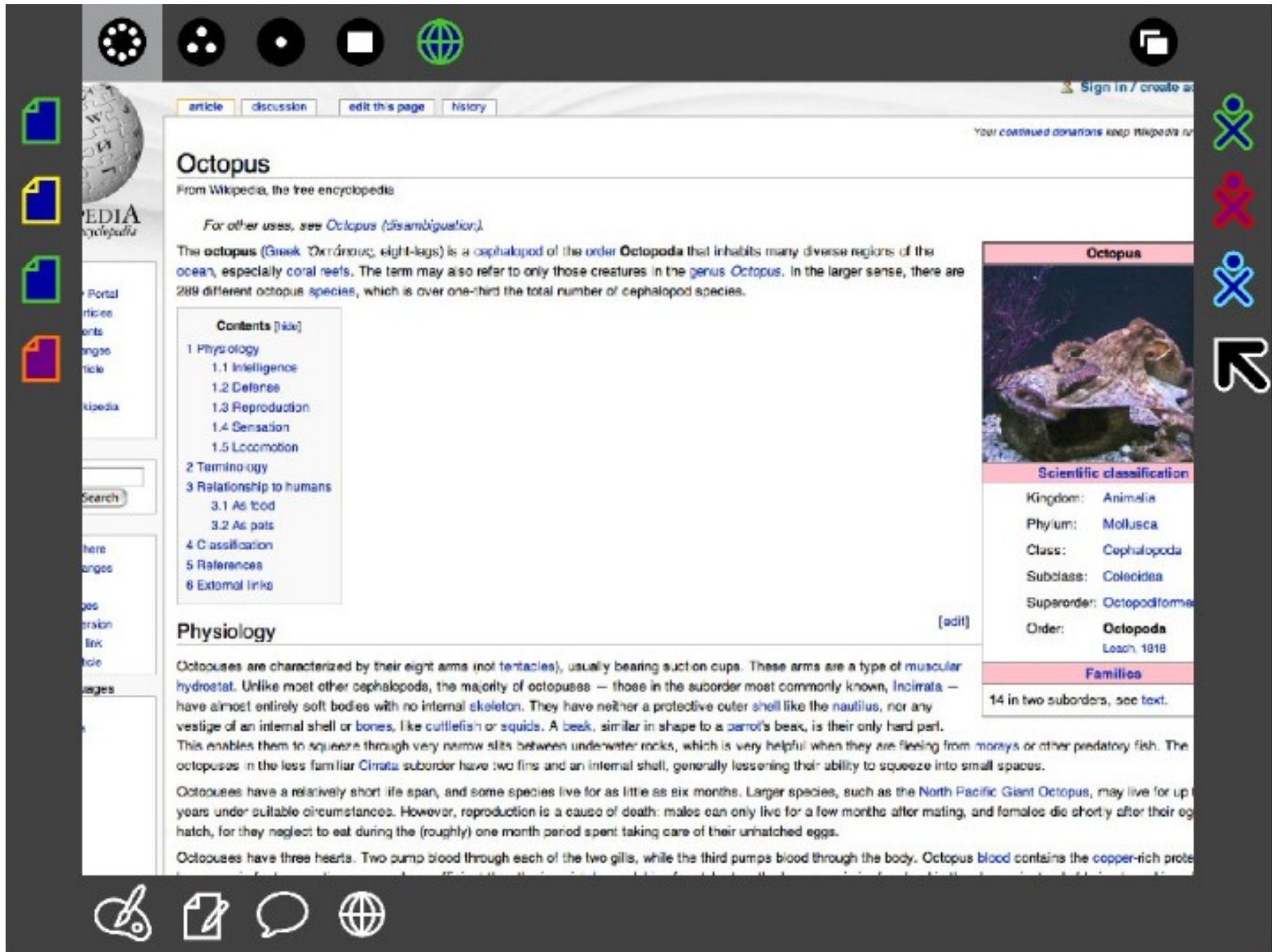
Servers to Scale

Bundles, not Packages









Octopus
From Wikipedia, the free encyclopedia

For other uses, see [Octopus \(disambiguation\)](#).

The **octopus** (Greek *ὀκτώπους*, eight-legs) is a **cephalopod** of the order **Octopoda** that inhabits many diverse regions of the ocean, especially **coral reefs**. The term may also refer to only those creatures in the **genus** *Octopus*. In the larger sense, there are 289 different octopus species, which is over one-third the total number of cephalopod species.

Contents [hide]

- 1 Physiology
 - 1.1 Intelligence
 - 1.2 Defense
 - 1.3 Reproduction
 - 1.4 Sensation
 - 1.5 Locomotion
- 2 Terminology
- 3 Relationship to humans
 - 3.1 As food
 - 3.2 As pets
- 4 Classification
- 5 References
- 6 External links

Physiology [edit]

Octopuses are characterized by their eight arms (not tentacles), usually bearing suction cups. These arms are a type of **muscular hydrostat**. Unlike most other cephalopods, the majority of octopuses — those in the suborder most commonly known, *Incertata* — have almost entirely soft bodies with no internal **skeleton**. They have neither a protective outer **shell** like the *nautilus*, nor any vestige of an internal shell or **bones**, like cuttlefish or squids. A **beak**, similar in shape to a **parrot's** beak, is their only hard part. This enables them to squeeze through very narrow slits between underwater rocks, which is very helpful when they are fleeing from **monies** or other predatory fish. The octopuses in the less familiar *Cirrata* suborder have two fins and an internal shell, generally lessening their ability to squeeze into small spaces.


Octopuses have a relatively short life span, and some species live for as little as six months. Larger species, such as the **North Pacific Giant Octopus**, may live for up to 30 years under suitable circumstances. However, reproduction is a cause of death: males can only live for a few months after mating, and females die shortly after their eggs hatch, for they neglect to eat during the (roughly) one month period spent taking care of their unhatched eggs.

Octopuses have three hearts. Two pump blood through each of the two gills, while the third pumps blood through the body. Octopus blood contains the copper-rich protein hemocyanin, which gives it a blue color. The blood is also thicker than that of other animals, and it is more difficult to pump through narrow vessels.


Octopus	
Kingdom:	Animalia
Phylum:	Mollusca
Class:	Cephalopoda
Subclass:	Coleoidea
Superorder:	Octopodiformes
Order:	Octopoda Leach, 1818


Families

14 in two suborders, see text.



Octopus - Wikipedia, the free encyclopedia

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navigation

- Main Page
- Community Portal
- Featured articles
- Current events
- Recent changes
- Random article
- Help
- Contact Wikipedia
- Donations

search

toolbox

- What links here
- Recent changes
- Upload file
- Special pages
- Printable version
- Permanent link
- Cite this article

in other languages

- العربية
- Български
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- Deutsch
- Español
- Esperanto
- Français
- Galego
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Octopuses have three hearts. Two pump blood through each of the two gills, while the third pumps blood through the body. Octopus blood contains the copper-rich protein hemocyanin for transporting oxygen. Less efficient than the iron-rich hemoglobin of vertebrates, the hemocyanin is dissolved in the plasma instead of being bound in red blood cells and gives the blood a blue color. Octopuses draw water into their mantle cavity where it passes through its gills. As mollusks, octopuses have gills that are finely divided and vascularized outgrowths of either the outer or the inner body surface.

Intelligence

[\[edit\]](#)

Thursday, September 11, 2006



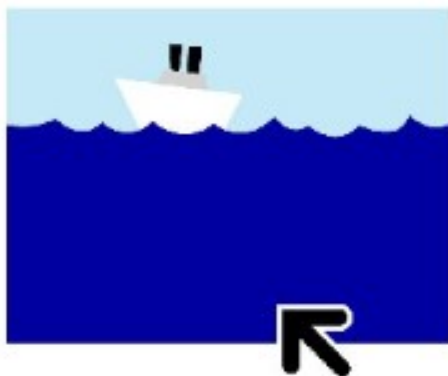
At 6:45 PM, you made:

"A Drawing of the Ocean"

Description:

Ocean, Fish, Boat

with:



Eben said: "We found tons of cool stuff about fish and the environment they live in. Sharks have huge teeth and jaws so they can prey on large fish and mammals."



Walter said: "Christian drew the ocean. I drew the ship."

Type a new comment:



At 4:30 PM, you browsed the web with:



Description:

Games



Thursday, September 21, 2006



At 6:45 PM, you made: **"A Drawing of the Ocean"** with:



At 2:15 PM, you browsed the web with:



At 4:30 PM, you wrote: **"Many Kinds of Ships"** with:



Wednesday, September 20, 2006



At 5:15 PM, you browsed the web with:



At 2:45 PM, you made: **"My Classroom"** with:

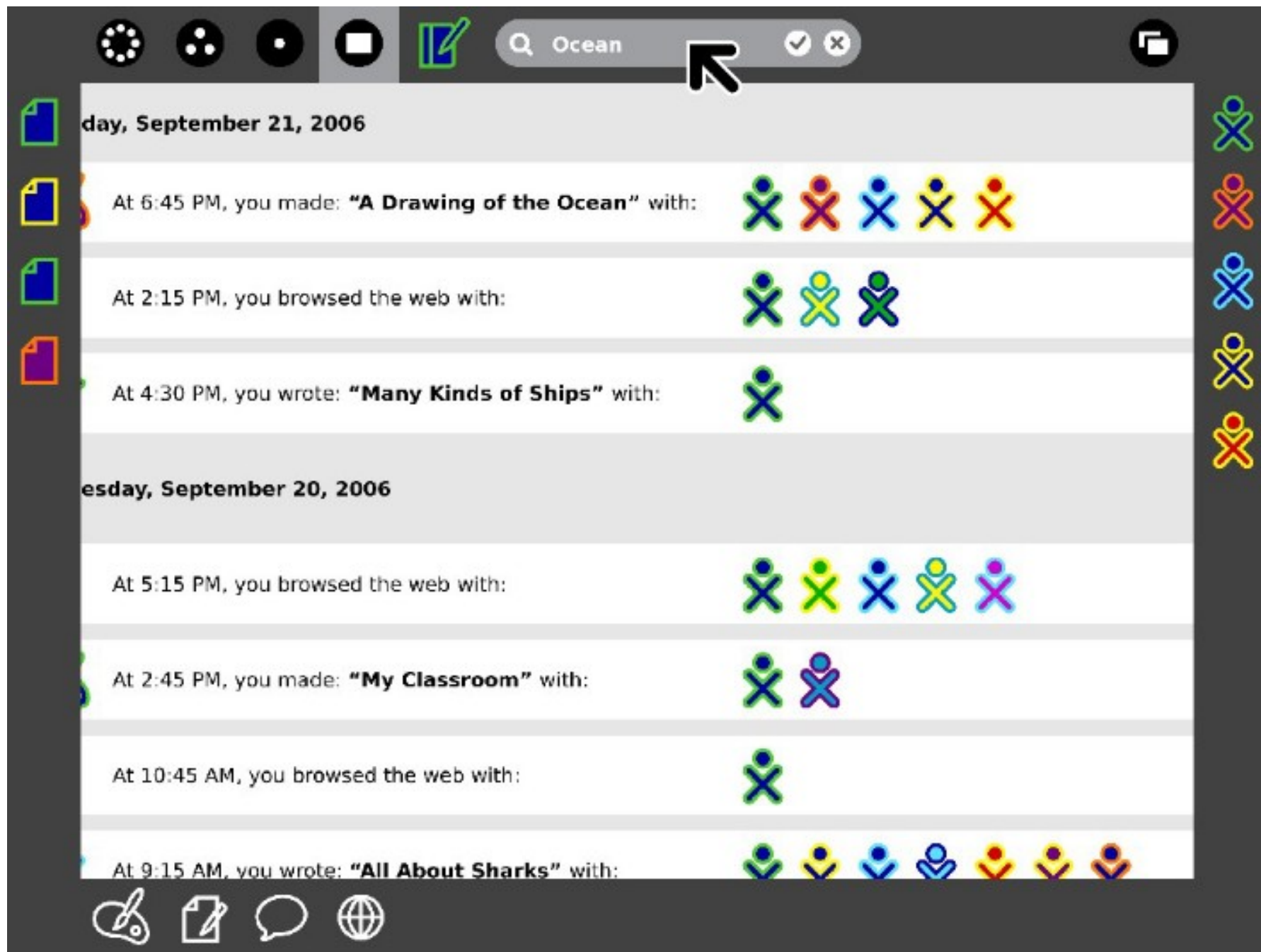


At 10:45 AM, you browsed the web with:



At 9:15 AM, you wrote: **"All About Sharks"** with:

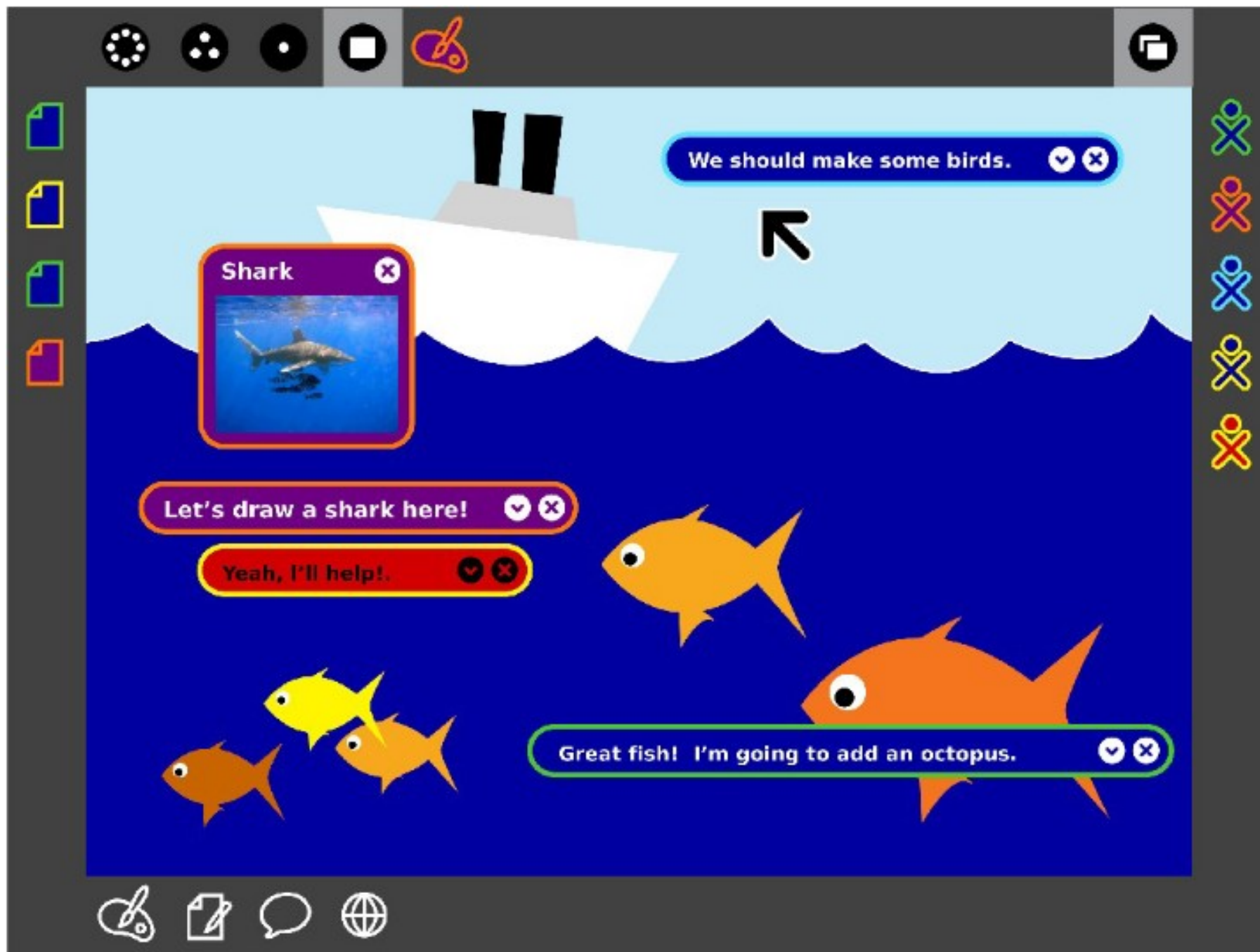




The screenshot displays a Red Hat classroom interface. At the top, a search bar contains the text "Ocean" and is highlighted by a mouse cursor. Below the search bar, the interface is organized into a vertical list of activity entries, each representing a different day. The entries are as follows:

- Monday, September 21, 2006**
 - At 6:45 PM, you made: **"A Drawing of the Ocean"** with: 5 participants (represented by colorful stick figures).
 - At 2:15 PM, you browsed the web with: 3 participants.
 - At 4:30 PM, you wrote: **"Many Kinds of Ships"** with: 1 participant.
- Tuesday, September 20, 2006**
 - At 5:15 PM, you browsed the web with: 5 participants.
 - At 2:45 PM, you made: **"My Classroom"** with: 2 participants.
 - At 10:45 AM, you browsed the web with: 1 participant.
 - At 9:15 AM, you wrote: **"All About Sharks"** with: 7 participants.

On the right side of the interface, there is a vertical column of six colorful stick figure icons, each representing a participant in the classroom. At the bottom of the interface, there is a navigation bar with four icons: a pencil, a document, a speech bubble, and a globe.



The image shows a collaborative drawing application interface. The main workspace is a dark blue area representing the ocean, with a white ship at the top. Several colorful fish are scattered throughout. A chat window is open, displaying several messages. A mouse cursor is pointing at a message. On the left side, there are icons for file management. On the right side, there are icons for user avatars. At the bottom, there are icons for drawing tools and a globe.

Messages in the chat:

- We should make some birds.
- Let's draw a shark here!
- Yeah, I'll help!
- Great fish! I'm going to add an octopus.

A card titled "Shark" is visible, showing an image of a shark. A mouse cursor is pointing at the message "We should make some birds.".

http://wiki.laptop.org/go/OLPC_Human_Interface_Guidelines

#sugar on freenode

Sugar mailing list on laptop.org