OLPC Communications Outlook

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status quo

overview

working collaboration primitives not many collaborative activites

reliability

wireless firmware problems ejabberd problems

scalability

multicast hurts broadcast on Jabber hurts

improving scalability for Jabber

goal: lower number of messages broadcast Gadget: an XMPP server component shared activity registry service

Cerebro

how to integrate?

raising the level of abstraction

Telepathy is low-level distributed applications are hard! making it easier to write collaborative activites

use Ben's stuff offline operation

security

exploring the problem/solution space reusing real-world conversation concepts introductions

http://wiki.laptop.org/go/ Communications security

tubes

datagram tubes send more stuff peer-to-peer

overlay chat

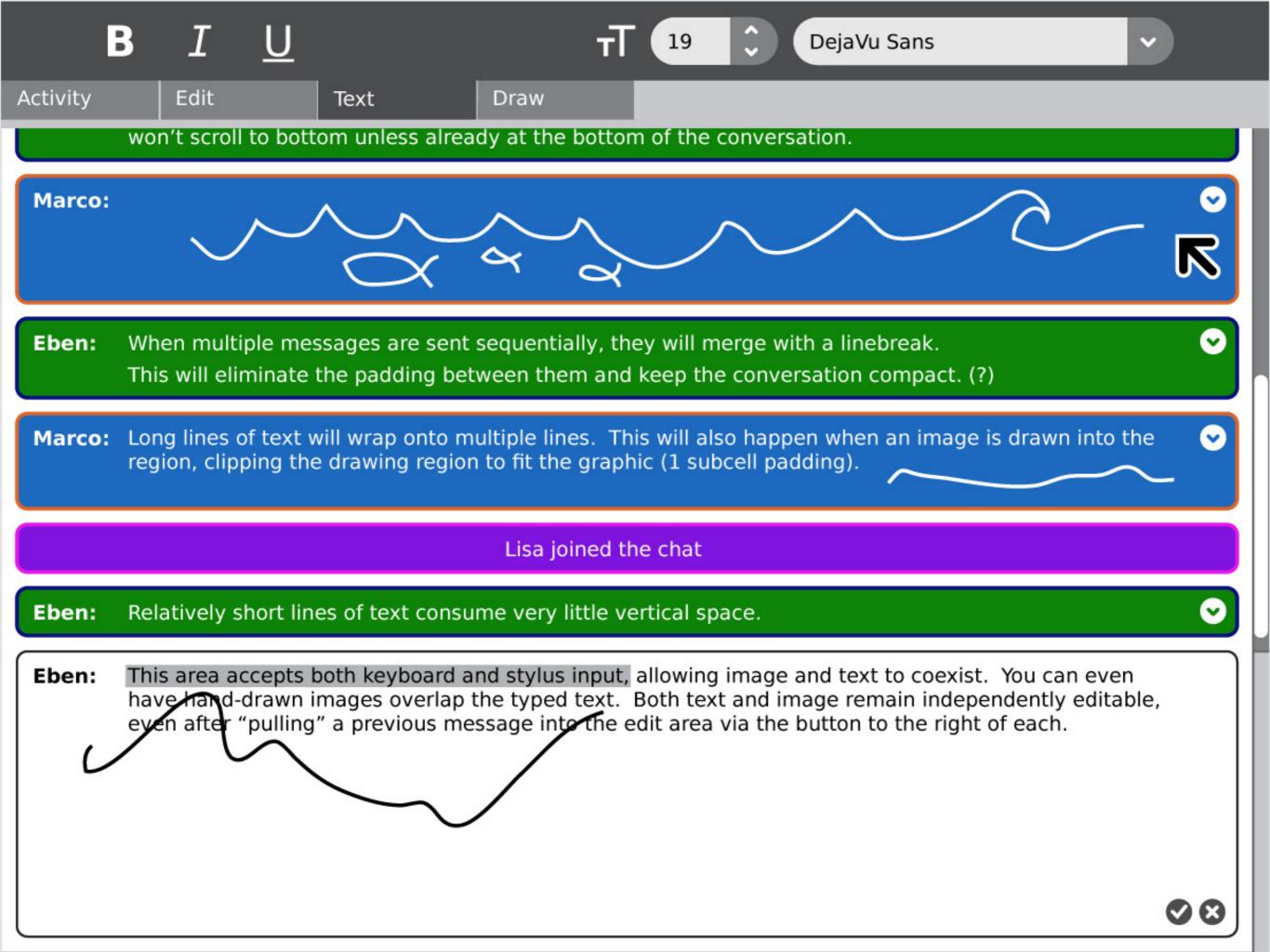
mainly a UI problem

presence messages

"what I'm doing" where to put them?

groups

invites to groups



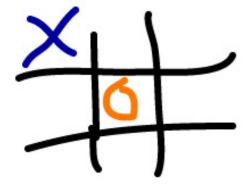


Activity

Edit

Draw



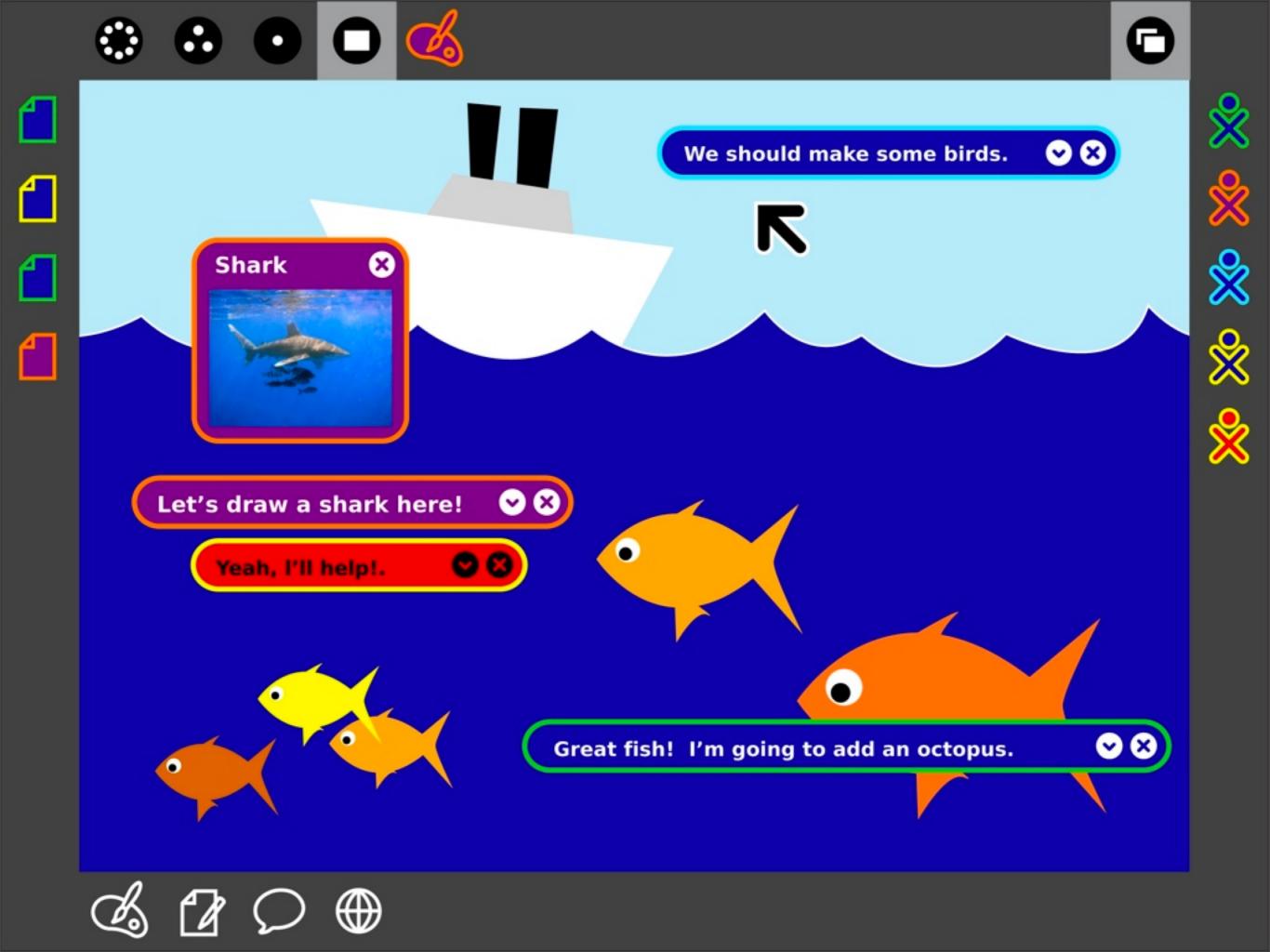


pervasive video

the camera is underused snapshot of what my friends are doing low resolution/low framerate avatars

conferencing

audio/video group chat
Farsight2
audio is easier than video
push-to-talk



the outside world

communications between schools communications outside schools access control

discussion