



Sharing personal media

Design Expo,
Microsoft Research,
USA

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India

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Sharing personal media

D i s p e r s e d

.

families





Dispersed family

At least one member having to stay in a geographically **different location**



Child staying
away



Parents staying
away



Spouse staying
away

Why dispersed family

Need for getting **reconnected**
To support their **emotional needs**

Changes occurring in the absence of a family member

Roles

Rules

Routines

Relationships

Recreation





Indian cultural context

Strong norms guiding show of respect for elders, family structure and gender

Protocol for duties amongst family members.

Openness – expected from child to parent, not visa versa

Numerous festivals – family members necessarily get together

Several languages spoken at a time by family members





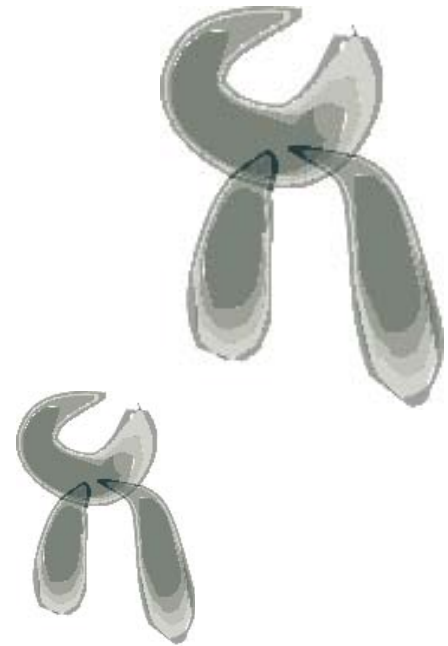
How they connect

Tangibles

Photos, souvenirs, gifts, video and audio recordings, greetings, notes

Intangibles

Experiences, memories, gossip, nostalgia, travels, anecdotes, stories, skills, prayers, riddles, surprises





Sharing knowledge

Ancient scripture in Sanskrit says:

“Sharing knowledge increases it
Storing knowledge depletes it.”
-The Upanishads





About sharing

Why share?



obligation, protocol, formality, tradition, fondness, friendship, to exchange, to collaborate, to transfer, to learn, emotions, peer pressure, satisfaction, ego, etc.,...

When?



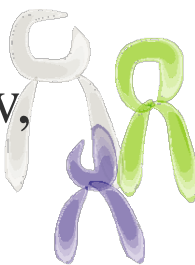
at home, festivals, parties, anniversaries, birthday, family get together, holiday

Where?

picnics, holiday resorts, restaurants, parks, home, clubs, schools, at home, at ancestral home

What?

secrets, culture, spaces, ideas, food, personal things, thoughts, gifts, gossips, news, jokes, sorrow, fear, anger, experiences.





Design goals

communicate emotions and feelings

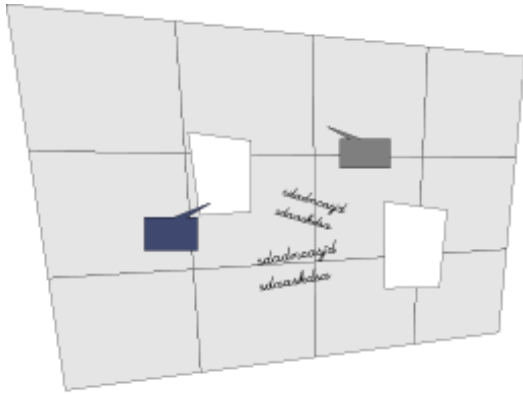
Personalize communications

consider various age groups, literacy levels
and multi-linguality



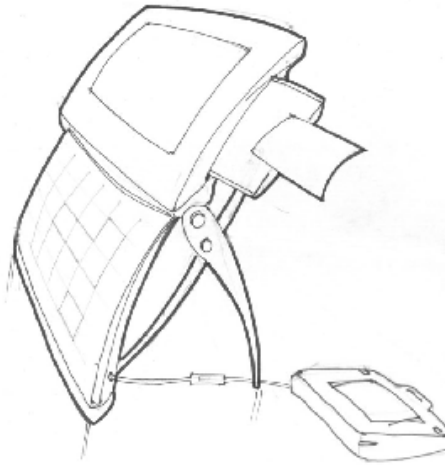


Initial concepts



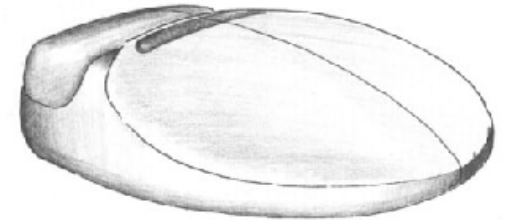
**A common
place**

Back at home...



**A shareable
calendar**

I want you to know...



**A touch & doodle
communicator**

Reaching out...





joda

The touch & doodle communicator

Jodo means ‘to connect’



A dense, colorful doodle featuring a yellow speech bubble with 'dada' written inside, a rocket ship, a cow, a car, and various mathematical symbols like pi, infinity, and percentages.

physical contact.

gesticulating with their hands

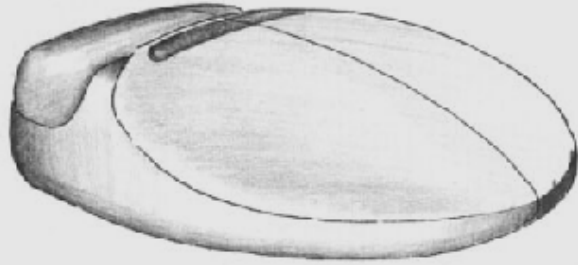


The question:

Can we **support gestures** to make conversations more communicative, meaningful, complete?



User feedback 1



Iteration 1

Device serves as an address book

Feels like the family member is almost there

Too many buttons on the screen

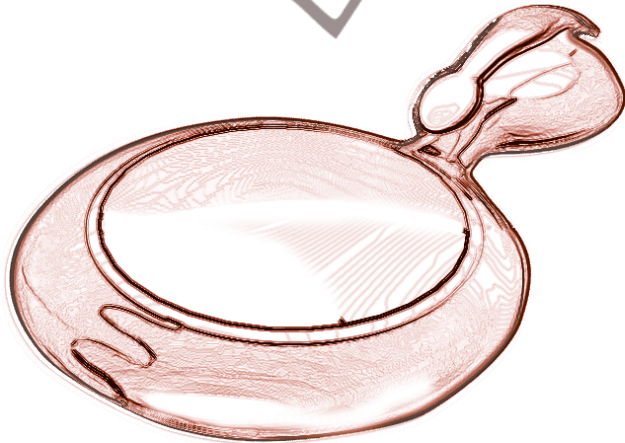
Looks like the good old telephone



User feedback 2



Iteration 2



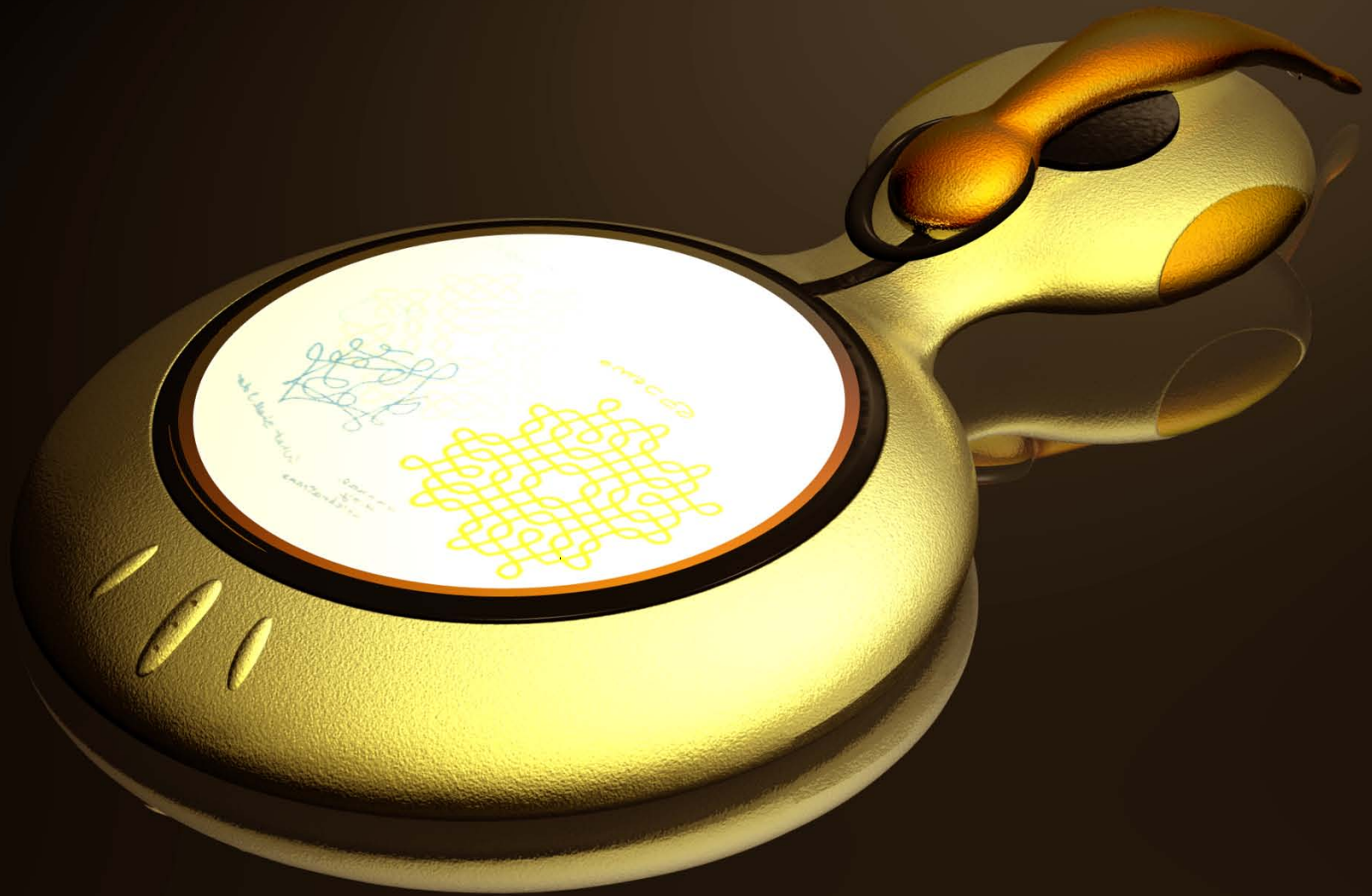
User appreciated the metaphor of the ‘yin and yang’

Still looked like the telephone.

Cumbersome to carry around.

Device does not let one walk, talk and write at the same time.

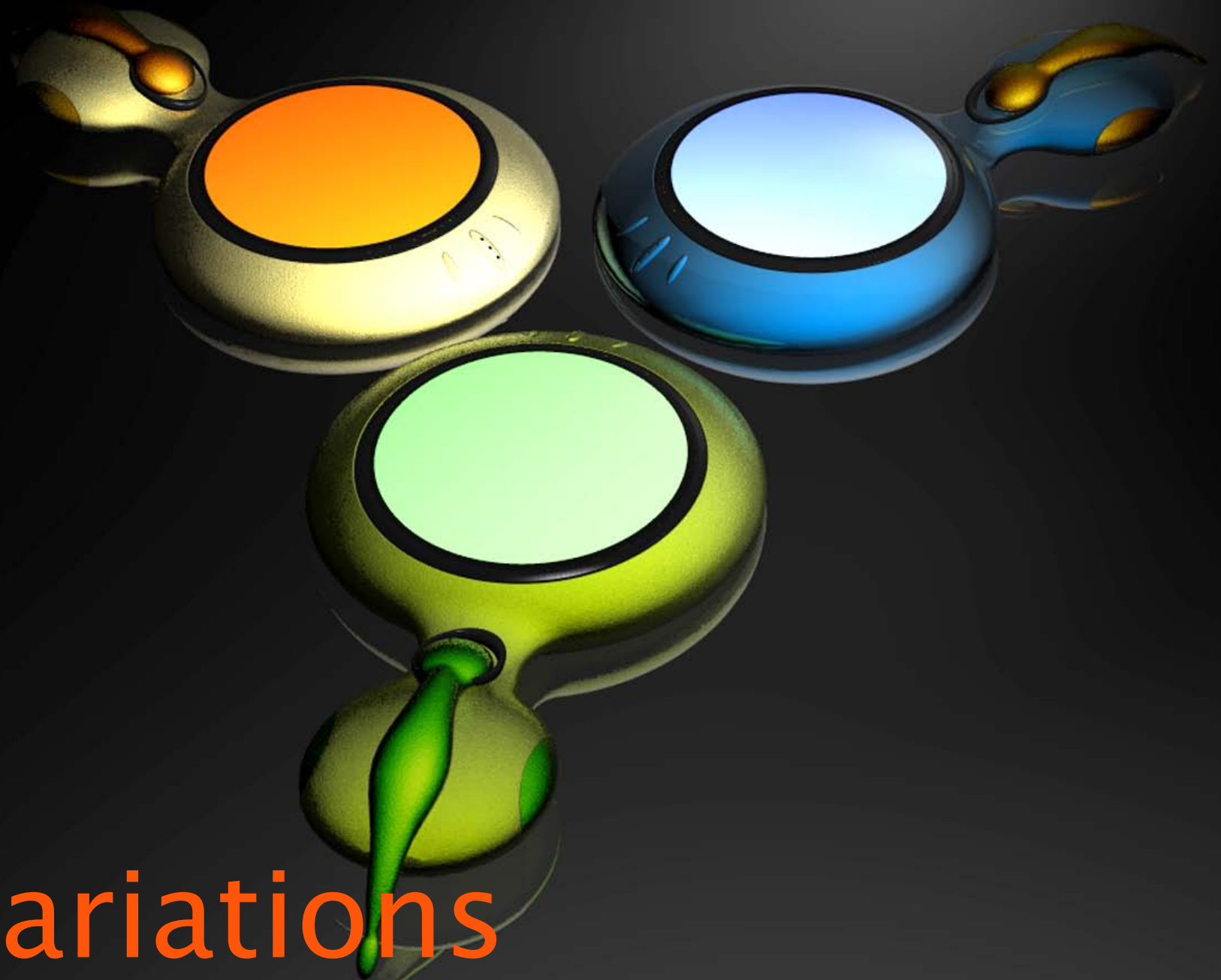
Device is not wall mountable



Jodo

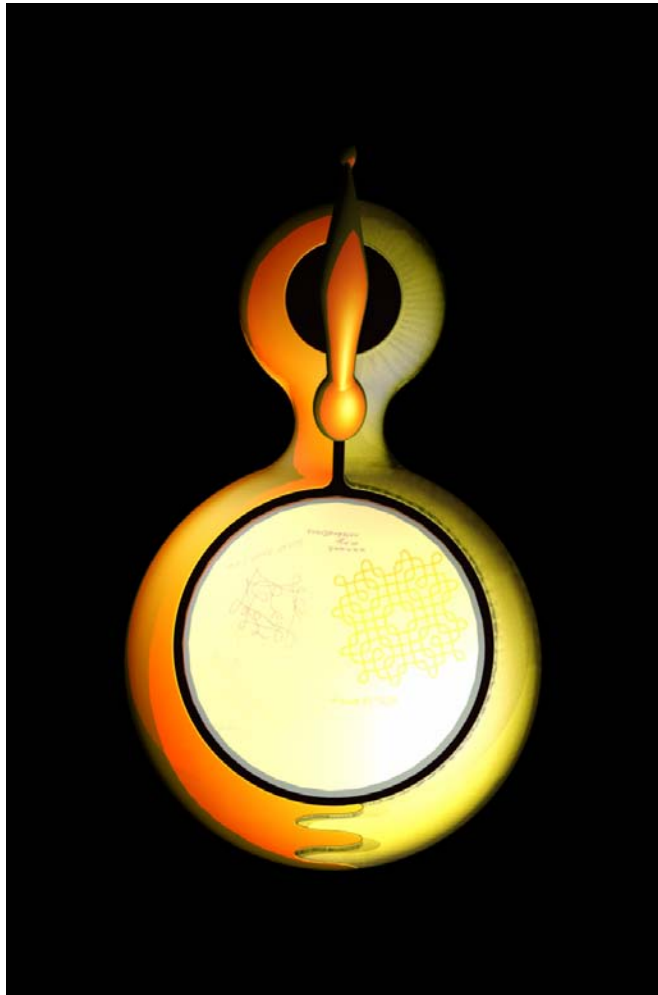


Jodo features



variations

Product semantics



‘Aranmula’ mirror as a metaphor

-directly reflects from the metal surface

Capabilities 1



Enables
interactions using
sketching and
doodling

Capabilities 2



Transmits 'touch'
through graphic
patterns

Capabilities 3



Sends vibrations
from the 'ticklish'
to the
'thunderous'



Leaves behind
either sketch or
audio message

Records and
plays back the
doodles, sketches,
vibrations, etc.



Scenario



Related products

Doodle through Yahoo chat

Cordless web screen by Ericsson

Haptic:

Handshake by UCL-MediaLab

Phantom arm



Extended uses

Trekker: sketching directions

Grand parent: visually narrating stories to grandchildren

Businessman: discussing business through 'figure based calculations'

School children: solving maths and science problems together

Lovers: sending personalized greetings

Teenagers: communicating with each other through secret code languages (combination of visuals, signs and text)



In conclusion

“ Restlessly, I moved from
place to place
and country to country,
Looking for that perfect experience

Until I returned home, only to find it
in my own garden
a drop of dew perched on
a tiny blade of grass”

(Nobel laureate poet Rabindranath Tagore)



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Team

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Dr. Ajanta Sen



