DISTRIBUTED NARRATIVE EXTRACTION USING IMAGING SENSOR NETWORKS

AT HOME.
REYNA'S STORY BEGINS.

SHE SETS UP THE STORY MODEL.

SHE CAN SELECT FROM THE AVAILABLE STORIES AND DOWNLOAD NEW ONES FROM THE WEB.

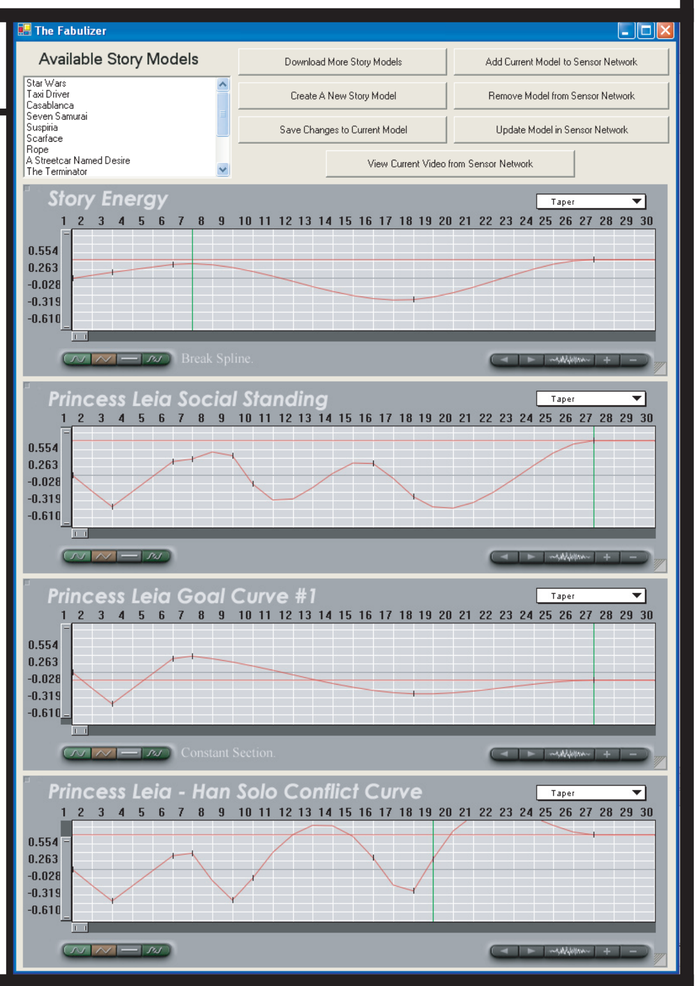
OR

SHE CAN CREATE A NEW STORY MODEL FROM SCRATCH AND SHARE IT.

THE STORY MODEL CONTAINS HUNDREDS OF PARAMETERS THAT DESCRIBE THE STORY.

SHE CAN CREATE OR MODIFY ALL OF THESE PARAMETERS.

THE STORY MODEL IS SENT TO THE IMAGING SENSOR NETWORK.



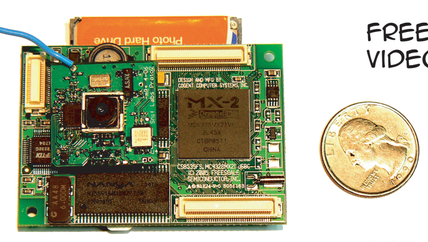
IMAGING SENSOR NODE (ISN).

PROPRIETARY SENSOR
RF WIRELESS (500 KBPS)

SEAGATE 8GB 1" HDD

FREESCALE I.MX21
VIDEO PROCESSOR

ALPS CMOS CAMERA



802.11 FOR VIDEO
RETRIEVAL

NARRATIVE SENSOR NODE
INCLUDED

GPS

AT WORK...

AT PLAY...

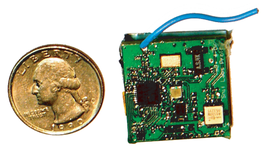
NARRATIVE SENSOR NODE (NSN).

WEARABLE!
MOBILE!
OR
STATIONARY!

DETECTS PARAMETERS
FROM THE STORY MODEL

PROPRIETARY SENSOR
RF WIRELESS (500 KBPS)

IDENTIFIES WEARER TO THE
IMAGING SENSORS



DETERMINES IF THE CURRENT
SITUATION FITS THE MODEL,
HOW WELL IT FITS, AND WHERE
IN THE STORY IT FITS

COORDINATES WITH
IMAGING SENSORS TO
CAPTURE STORY EVENTS

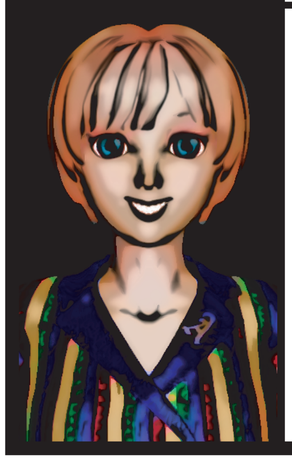
GETS LOCATION FROM
IMAGING SENSOR NODES

AND... ACTION!

THE VIDEO CLIPS ARE COLLECTED AND SEQUENCED ACCORDING TO THE ORIGINAL STORY MODEL.

EACH DAY REYNA CAN CHECK THE VIDEO AS MORE AND MORE CLIPS ARE ADDED AND THE VIDEO BETTER FITS THE EBBS AND FLOWS OF THE ORIGINAL STORY.

THE FINAL VIDEO FOLLOWS THE PARAMETRIC MODEL OF THE ORIGINAL STORY BUT HAS THE PERSONALITY OF THE EVENTS AND RELATIONSHIPS OF REYNA'S LIFE.



WHY DOES SHE DO IT?

NEW PERSPECTIVE ON THE EVERYDAY HELPS UNDERSTAND OUR EXPERIENCES

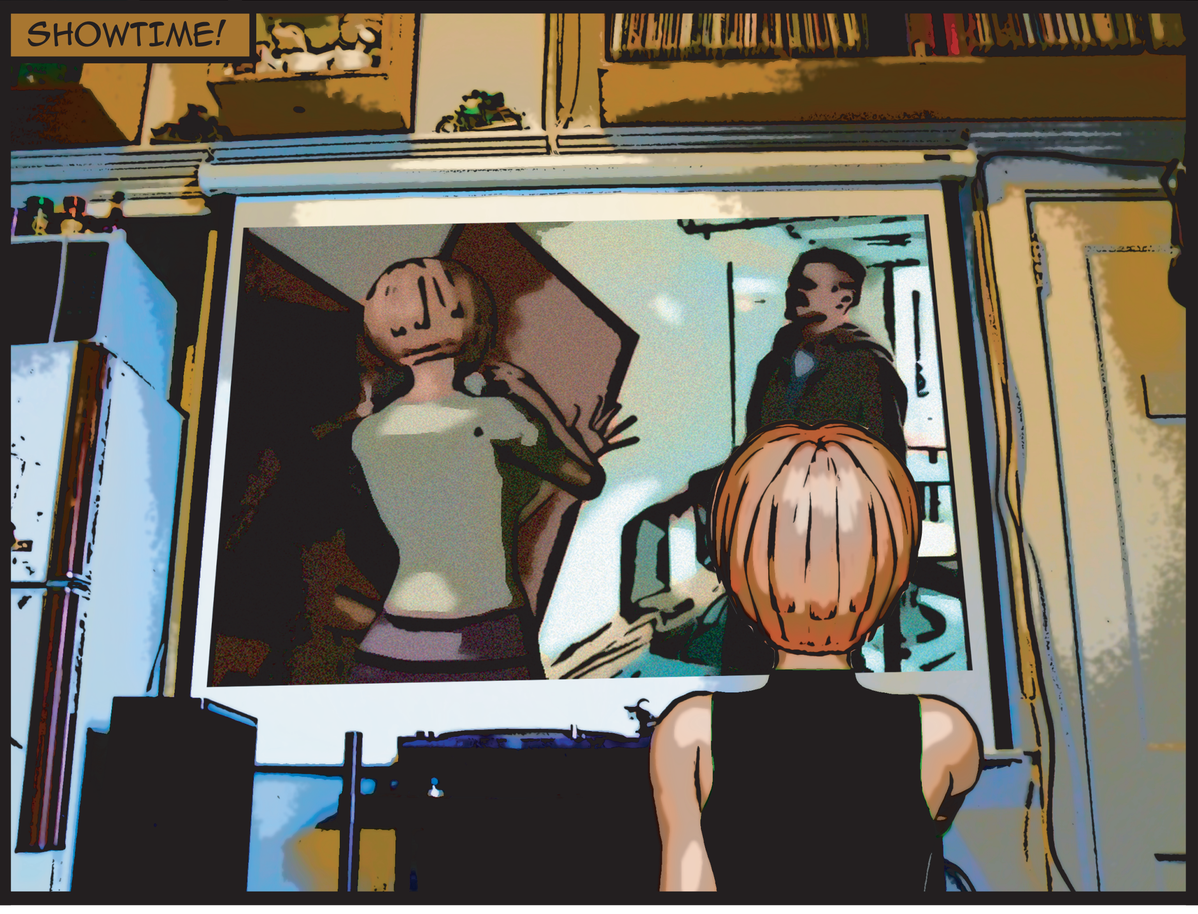
USERS CAN TRADE VIDEOS AND STORY MODELS, BUILDING A COMMUNITY

THIS IS A NEW FORM OF DIARY/BLOG

MULTIPLE USERS CAN USE THE SAME MODEL AND SEE HOW THEIR VIDEOS DIFFER

NARRATIVE STRUCTURES ARE USED AS A MEANS FOR CATALOGING LARGE AMOUNTS OF VIDEO AND SENSOR DATA

SHOWTIME!



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MIT MEDIA LAB 2006