

Intel Perceptual Challenge Proposal

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1 Summery

Still for commenting on a product on Amazon, or a movie on Netflix, or sharing ideas on Facebook we type- that is in “words”. Body language could stand for more than 50 percent of the “meant” content which is just lost during this transformation. We now, drop smilies, mems etc. to somehow account for this missing aspect of human communication into the boring text boxes, typing with keyboards! Amber, our App, is meant to change this! Amber would be the first platform that lets everyboy to create multimedia contents as simple and as smoothly as typing.

Amber, when run, will activate the camera, record the voice and will use few key points, targets, on the face of the user and will use the relative proportional information, rather than absolute values of the spacial coordinates, to do a robust stable control of our artsy cartoons! The output will be an animation; this whole platform from input to output, will run solely on HTML5. The video, audio and a subtitle that could seperately be used also to control the cartoons independent of the camera are three main data types that are now reproduced and not missed.

Amber, basically has two completely seperate “aspects”.The first one, is working with the data provided by the sensors as the controller, “animators”, and the second half is the user inputs, where the user could write- as in “typing”, select a “mood”, etc as the input controller of the cartoons. The two halves together will provide a robust fun platform to generate content that never existed before! We can just use the voice to extract the content and with few filters, etc as the nudget of this app, we regenerate an automated speaking cartoon! Or we can actually record the user’s face as the sole controller of the cartoon. Amber, is simply animated mems, excet that our cartoons are uniquely styled and designed! And this “recording” will be in terms of not just spacial locations of some target points but in terms of other, more meaning ful, parameters, like ratios and feelings (i.e. happy/sad face).

The key part of this App, is how complexity-avoiding the main laoyout of the development is. For this purpose, Amber, will be developed and tested in two isolated comprehensible wholes; later to be put together to provide the extra redundancy to outbalance the missing “accuracies” which migh results from both data-input frequencies or imposed by content-upload requirements.

Amber will be one of the very few Apps, which gives every user a different tool to “create” content and is heading to change the way we share ideas online!