Designing the Browser

@joshcarpenter, Google

Oct 19 2016, W3C WebVR Workshop

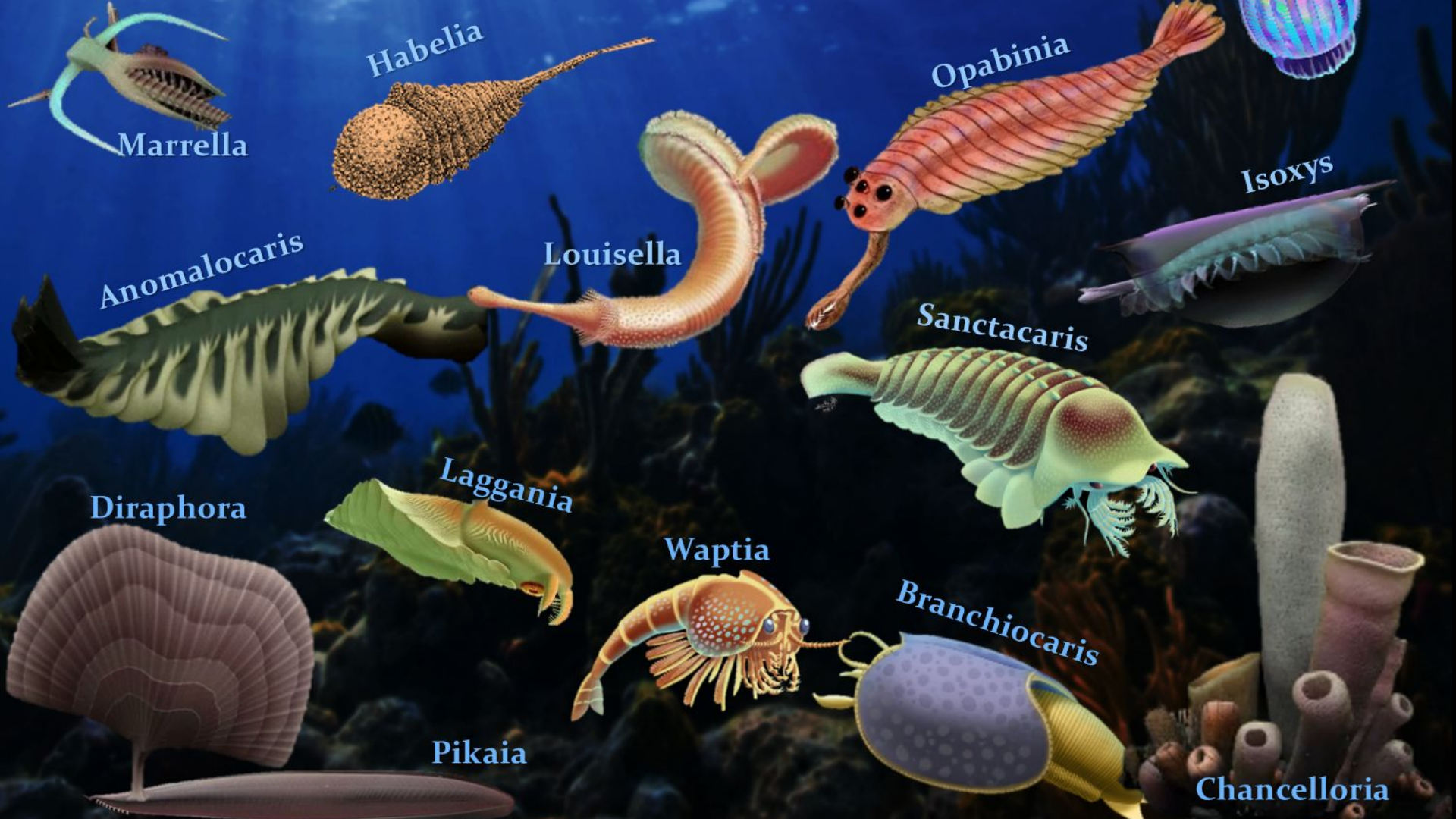
Google

UICK VR MOCKUPS WITH
LLUSTRATOR

QUICK VR MOCKUPS WITH
ILLUSTRATOR

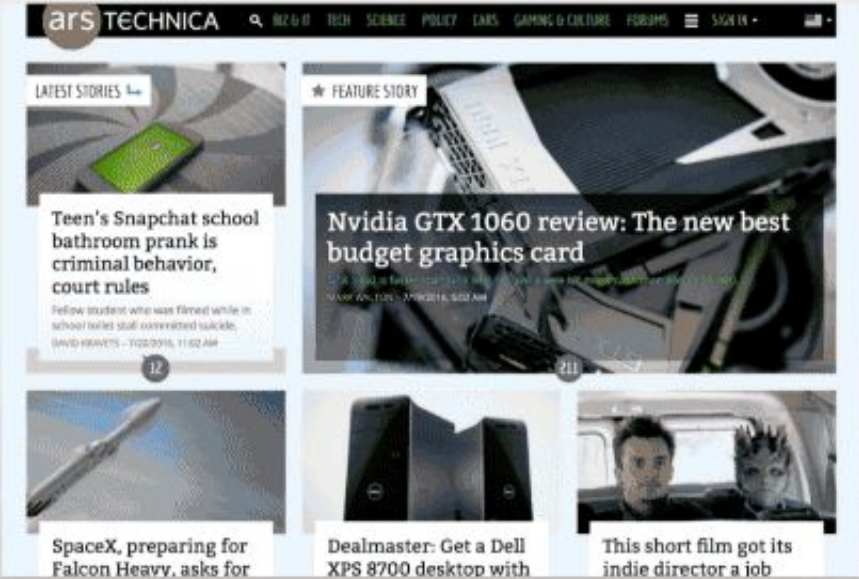
RICARDO CABELLO
DIEGO MARCOS
MATTHEW CLAYPOTCH
SECHELT
HIRO-VR.COM/SECHELT
THREE.JS, TWEEN.JS

WHERE YOU ARE
The Polar Sea
360° VR Documentary
Filmmaking in the
Northwest Passage
Presented in WebGL
Information Design
A visualization study
with VR and inspired
by the art of Tatiana
Plakhova
WHERE YOU ARE
The Polar Sea
360° VR Documentary
Filmmaking in the
Northwest Passage
Presented in WebGL
Information Design
A visualization study
with VR and inspired
by the art of Tatiana
Plakhova


Marrella
Habelia
Opabinia
Isoxys
Anomalocaris
Louisella
Sanctacaris
Laggania
Diraphora
Waptia
Branchiocaris
Pikaia
Chancelloria

All browsers should...

No UI dead zones: Maximize for creative freedom of 360 experiences. Do not take away real estate from developers by persisting browser UI on-screen when WebVR content is presenting. In the future we may be able to, once we see design patterns begin to stabilize, but not yet.


ars TECHNICA
LATEST STORIES
Teen's Snapchat school bathroom prank is criminal behavior, court rules
FEATURE STORY
Nvidia GTX 1060 review: The new best budget graphics card
SpaceX, preparing for Falcon Heavy, asks for
Dealmaster: Get a Dell XPS 8700 desktop with
This short film got its indie director a job

All browsers should...

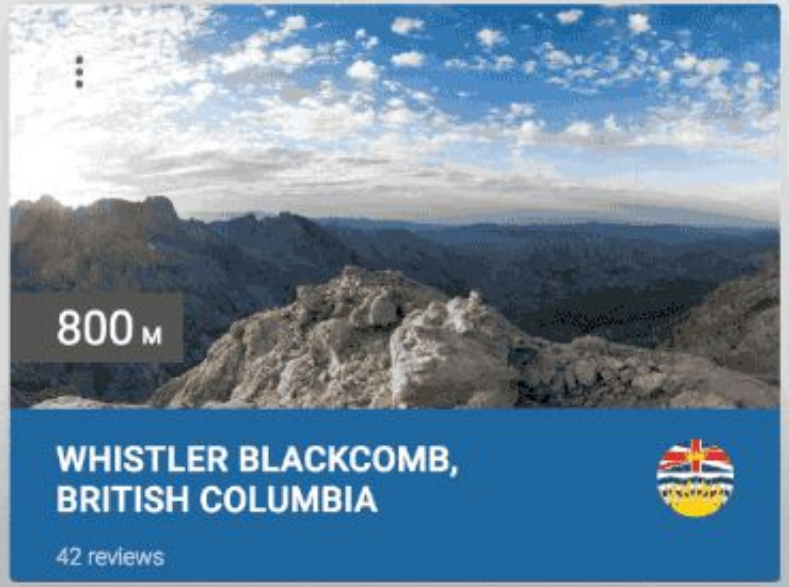
Facilitate speed: We want a world where users put on headsets and surf from world to world, rich immersive experiences loading as fast as Netflix cold starts over decent connections. This is the core of the web's value proposition, versus installed apps. Browser vendors should facilitate performance—real and perceived—and make it easy for developers to do the right thing.

If visual performance was the only basis of competition that mattered in product design, we’d all be watching Blu-ray instead of Netflix.

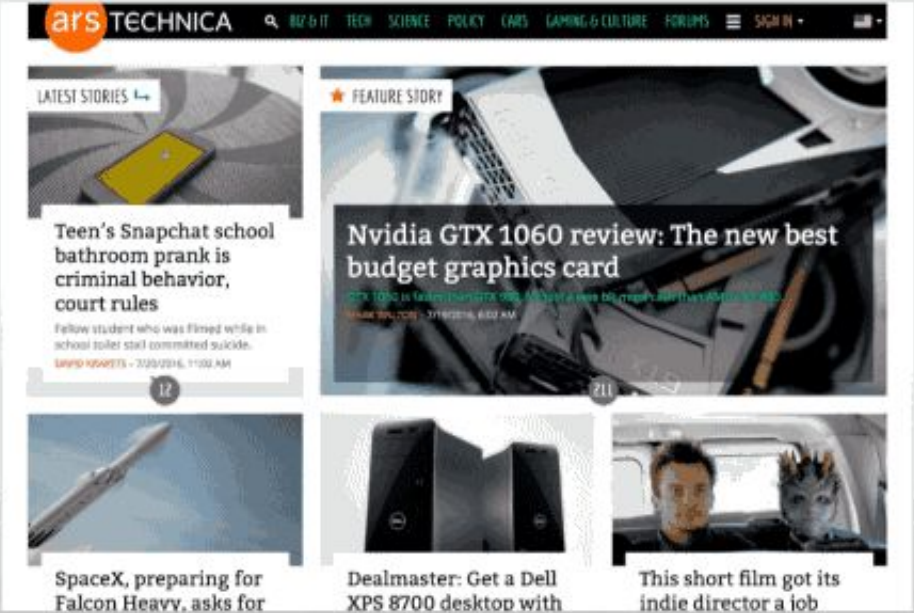
All browsers should...

Support the whole web: Users should be able to visit any link. From a site built in 1995, to a bleeding edge WebVR experience.

8
Phone
Mail
Safari
iPod



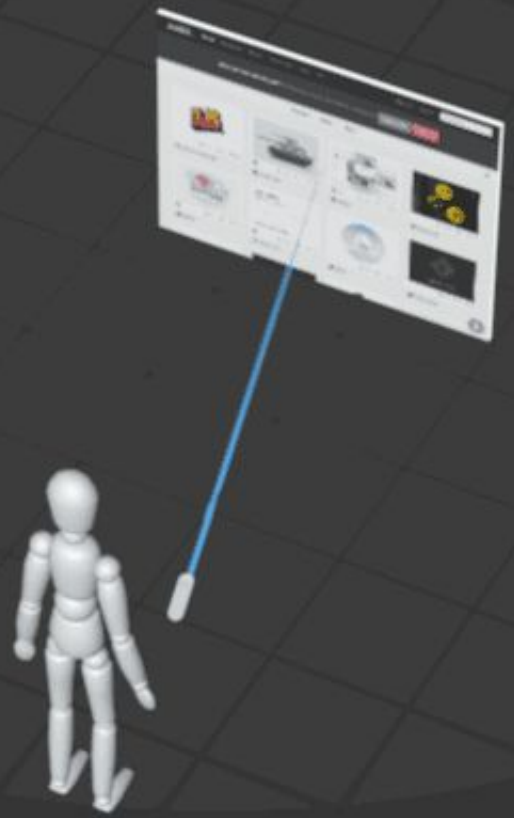
2D mode lets users surf the classic 2D web


ars TECHNICA
BIZ & IT
TECH
SCIENCE
POLICY
CARS
GAMING & CULTURE
FORUMS
SIGN IN
LATEST STORIES
Teen's Snapchat school bathroom prank is criminal behavior, court rules
Fellow student who was filmed while in school toilet stall committed suicide.
12
FEATURE STORY
Nvidia GTX 1060 review: The new best budget graphics card
211
SpaceX, preparing for Falcon Heavy, asks for
Dealmaster: Get a Dell XPS 8700 desktop with
This short film got its indie director a job

One possible window movement scheme: point reticle at the window edge to engage a mode. The window highlights. Press-and-hold trackpad button and drag the window with controller movement. The window moves in an arc around the user, preserving distance. Release to disengage mode.

Move window closer/further by scrolling while pressing trackpad? Or map to pitch, instead of up/down movement?

Click into empty space at any time to move the window to that position. Could be fixed to left/right only? Or to XY radial grid around the user?



Weird analogies...

Oil tankers and speed boats. Big browsers with legacy obligations (eg security, full backwards compatibility) are powerful but move slowly. We can learn from nimble projects with smaller scopes that are out ahead of us, trying new ideas rapidly. Eg: Janus, Alt Space, High Fidelity.