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JHS

J HTTP Server

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repl - read/execute/print/loop

jconsole - J repl

j602 jwd - J IDE built on repl

j802 jqt - J IDE built on repl

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JHS

is NOT a J IDE built on J repl

JHS

is a web server

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a web server is a repl

read http request

execute

print http response (html)

loop

JHS is a web server

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JHS - web server built in J

framework for:

parsing http request

creating http response

similar to mix of:

apache/nginx/iis/...

cgi/php/asp/...

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JHS web server demo

browse to:

localhost:65001/jdemo12

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JHS web application

server side:

implemented in J

client side:

html5/css/javascript

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JHS J IDE - set of web apps

jijx

jijj

jfile

jfif

...

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JHS J IDE runs in browser

just like any other web app

bookmarks/tabs

drag/tear

font size

usability

...

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jijx demo

d

plot ?d

viewmat i.12 12  
jd3ln ?d  
recall line  
scroll recall line

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javascript libraries  
codemirror  
jd3  
handsontable  
jquery  
webgl 3d  
...

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JHS J IDE web app  
not as good as  
J602 jwd or J802 jqt  
but it is catching up!

if not as good (yet),  
why do I like JHS so much?

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UNIVERSALITY

universal  
browser/html/css/javascript

means universal access to JHS

means universal access to J IDE

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firefox/safari/chrome  
IE/opera/midori/...  
windows/unix/mac/android  
qnx/pi/surface/chromebook/...  
intel/arm/...  
desktop/tablet/phone/...  
mouse/touch/...

JHS serves them all

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hard to imagine anything  
without a browser

your next fridge will have  
a browser on the door!

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cloud machine with JHS

browse jijx on cloud machine

JHS J IDE identical  
local windows  
cloud linux  
any device with browser

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J on 30 random student devices!

cloud machine - 30 JHS tasks

assign student port number  
ready to go with their browser

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spent too much of my life  
developing J IDEs  
always behind

enormous resources go into  
making the browser universal

JHS is a small/simple codebase  
easy to keep up

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JHS framework (build web app)  
~2000 J lines  
~1000 javascript lines

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jijx page  
~200 J lines  
~300 javascript lines

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in the near future  
your J will run in the cloud  
accessed with your browser  
on whatever device  
you have at hand

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misleading quips from the past

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THE BROWSER IS THE PLATFORM

WRITE ONCE, RUN ANYWHERE

coming true years later with  
J/JHS