# London Vue.js #3
# Talk #2

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1. Real-time live results board for sporting events
2. Quick look into a larger app for interest
3. Tips/lessons learned & useful tools

Vue2 on horizon and will be covered in next meetups no doubt,
this session is going to keep things simple but also very useful

# Little bit of background

- I'm still learning (but have spent quite a bit of time with vue)
- Came to IT late, useful with MSOffice + a friend led to first role
- After 12-18months started contracting in C/C++
- Delphi (Object Pascal) Anders Hejlsberg (architect of C# & TS)
- Mainly PHP + some C# & Java
- JQuery Mobile
- Angular 1
- Vue - elegant & powerful
- Node - very seductive to work with one lang/tools
- Full-stack these days

# App 1: Real-time results board

## Software used

Vuejs (client)

Nodejs (server)

Expressjs (web framework)

Socket.io (real-time bi-dir communication)

Mongodb (storage)

## Dev tools

Sublime (editor)

Chrome (debug js)

VSCode (debug node)

Robomongo(mongodb management tool)

Nssm

# Background

- Prototype/Demo
- ReportLab

  Based in Wimbledon. Python experts, mainly server-side specialists. Consultancy with PDF generation tools, working in the City, for Universities & Hotels. Andy & Ricardo present

- Opentrack.run

  Open Data, Open Standards & Open Source.
  Building the open reference data to get everyone talking: organisations, clubs, venues, courses. Defining standard formats for interchange of entries, start lists, results and rankings. If we start to publish data and standards, other people can build on it

- DEMO & Volunteers! Carl, Rob, Olly Official & Fred the friend(s)

demo: http://217.160.133.168:7000/

# Points of interest

- component tag & VueResource was used. VueRouter overkill
- Components used: dash, matches, events + plus eventdetail (3 components within: startlist, liveresults, livedataentry)
- this.$root.XXX
- this.$broadcast('liveupdate', data);
- https://github.com/vuejs/vue-animated-list

- Live data entry matrix generation
- Socket.io interactions with vue
- VSCode multi-platform for debugging node apps + git support

# Quick look at App 2

## Software used

Vuejs (client)

Nodejs (server)

Expressjs (web framework)

Mariadb/mysql (storage)

IISNode

hMailServer (email logging)

## Third party APIs

Stripe (pmt gateway)

Twilio (sms)

EA Licence checker (soap)

Google Maps/Charts

demo: local

# Points of interest

- VueRouter used, VueResource not - Fetch() instead
- Power of Mixins
- Dynamically loaded components via app-loader.js
- Components used: tabs, modals, many others
- state shared through sub-object of a global
- https://github.com/lain-dono/vue-dnd

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- Workareas, multiple live windows, use of localstorage
- Use of watch()

```
Mixin methods shared by 6 activities:

beforeDestroy
    this.syncInternalData(1);
    appstorage.setSessionItem(this.uuid, this.pjo
route:
    data: function (transition)
methods:
    startdataroute
    syncInternalData
    createWorkArea
    basePostActivity
    baseCancelActivity
    prePostActivity
    preCancelActivity
```

# Tips/Lessons

- Think simple first. Use component tag if possible. "keep-alive"
- shortcuts @, : also {{* }}, watch(), data properties with a leading _
- Logging reactive properties: this.$log(x) & devtools $vm.$log()
- power of Mixins
- don't be afraid to use this.$root.
- dynamically-loaded components see require() and https://github.com/tomcon/london-vuejs-3-talk/simple-extended
  credit https://github.com/your-budget-today/personal
- inline templates are powerful

```
<my-component inline-template=""></my-component>
```

see also https://github.com/tomcon/london-vuejs-3-talk/simple-extended

# Useful Tools & Information

- Vue-socket.io
- ngrok , very cool tool "Demo without deploying"
- Chrome Dev Tools Workspaces for live editing of css and js
- Using front-end build tools
- rollup vs webpack
  github.com/vuejs/vue/blob/es2015/build/build.js
- buble vs babel
  gist.github.com/angus-c/feea4e4cd0b853dc04c71fa4e7d2f83f
- npm vs gulp/grunt
  blog.keithcirkel.co.uk/how-to-use-npm-as-a-build-tool/