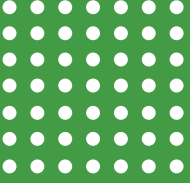
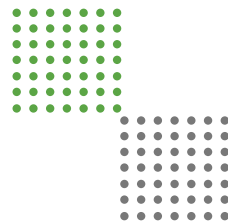


**V**TechLabs



**node**  
  
**Training**





## Foundation

- The Node.js framework
- Installing Node.js
- Using Node.js to execute scripts



## Modules and Unit Testing

- Modularization
- The CommonJS specifications
- RequireJS specifications
- Defining modules with exports
- Modules are singletons
- Creating a package
- Module scope and construction
- Unit testing frameworks
- What to test and how to test it
- Building unit tests with Mocha



## Node Projects

- The Node Package Manager
- Creating a project
- The package.json configuration file
- Global vs. local package installation
- Automating tasks with Gulp



## HTTP

- The HTTP protocol <
- Building an HTTP server <
- Rendering a response <
- Processing query strings <
- Using Representational State Transfer <
- Configuring TLS <

## Express

- The model-view-controller pattern
- Defining Jade & Handlebars templates
- Building a front-end controller
- Configuring Express to use Handlebars
- Building Handlebars helpers
- Defining routes
- Creating actions
- Using REST
- Reading POST data
- Adding middleware

## Buffers, Streams, and Events

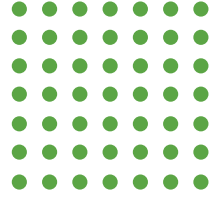
- Using buffers for binary data
- Flowing vs. non-flowing streams
- Streaming I/O from files & -other source
- Processing streams -asynchronously
- Configuring event -handlers

## File System

- Synchronous vs. asynchronous I/O
- Path and directory operations
- `_dirname` & `_filename`
- Asynchronous file reads & writes

## Data Sources

- How Node.js connects to databases
- RDBMS databases & NoSQL databases
- Connecting to RDBMS & NoSQL databases
- Performing CRUD operations
- File Uploaded
- Authentication
- Building client requests -to web services



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