

Extra Topics  
Summer 2022

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# Powershell

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# Export Cmdlets

- exporting provides a way of saving object properties in various formats in a file
- `export-csv` saves object properties in csv format suitable for later import to spreadsheets or similar programs
- `export-clixml` saves object properties in `xml` format suitable for later import to programs that understand `xml` like browsers or other powershell scripts
- `import` verb allows creating in-memory objects from those files

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# Export Verb Exercises

- `get-process > procs.txt`  
`get-process | export-csv procs.csv`  
`get-process | export-clixml procs.xml`
- Compare the contents and sizes of these three files of process object data
- `import-csv procs.csv | select *`  
`import-csv procs.csv | get-member`
- `import-clixml procs.xml | get-member`

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# Convert Cmdlets

- `convertto` verb allows conversion of object properties into `csv`, `json`, or `html` strings
- `convertfrom` verb allows creating in-memory objects from `csv` or `json` strings

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# Convert Cmdlets Examples

- `get-date | convertto-csv`
- `get-date | convertto-json`
- `get-date | select * | convertto-json`
- `get-date | convertto-html`
- `get-date | convertto-csv |  
convertfrom-csv | get-member`
- `get-member | convertto-json |  
convertfrom-json | get-member`
- `get-date | select * | convertto-json |  
convertfrom-json | get-member`

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# Handling Errors

- `$error`
- `erroraction`, `errorvariable`, etc
- `try` and `catch`