

```

</li></ul>
<li><a href="home-events.html">Home Events</a></li>
<li class="has-children">Multiple Column Menu on Larger Viewports
  <ul>
    <li><a href="#" class="current">Header Options</a>
    <li><a href="tall-button-header.html">Tall Button Header</a>
    <li><a href="image-logo.html">Image Logo</a>
    <li class="active"><a href="tall-logo.html">Tall Logo Image</a>
  </ul>
</li>
<li class="has-children"><a href="#">Carousels</a>
  <ul>
    <li><a href="variable-width-slider.html">Variable Image Width Slider</a>
    <li><a href="testimonial-slider.html">Testimonial Slider</a>
    <li><a href="featured-work-slider.html">Featured Work Slider</a>
    <li><a href="equal-column-slider.html">Equal Column Slider</a>
    <li><a href="video-slider.html">Video Slider</a>
    <li><a href="mini-bootstrap-carousel.html">Mini Bootstrap Carousel</a>
  </ul>
</li>

```

Vim Macros

Thomas Thornton (@tltr)

Recording & Playback

- ✦ Begin recording with 'q' (normal mode) and selecting a register
- ✦ There are many registers in Vim, but typically we will use a letter when recording macros
- ✦ Playback the macro with '@{reg}'

Replay Multiple

- `n@a` where 'n' is the number of times to replay, and 'a' is the register which contains your macro

Example - Header to POCO

```
poco-example.cs
1 public int WaterAccountNumber { get; set; }
2 public string RecentTransactionNumber { get; set; }
3 public string WaterAccountUsageTypeCode { get; set; }
4 public DateTime AccountCreationDateTime { get; set; }
5 public DateTime AccountTerminationDateTime { get; set; }
6 public string CutToCityDate { get; set; }
7 public string AccountDescription { get; set; }
8 public int AccountLegalDescription { get; set; }
9 public string DoNotSplitReasonCode { get; set; }
10 public string ReceiveBeneficialUseWaterFlag { get; set; }
11 public double CombineWaterAccountNumber { get; set; }
12 public double SpecialBillingWaterAccountNumber { get; set; }
13 public double OriginalWaterAccountNumber { get; set; }
14 public double ExchangeWaterAccountNumber { get; set; }
15 public string ExchangeContractSignedFlag { get; set; }
16 public string ExchangeAgreementDescription { get; set; }
17 public string PropertyAddressID { get; set; }
18 public string WaterDeliveryDistrictID { get; set; }
19 public string LandUseTypeCode { get; set; }
20 public string LandTypeCode { get; set; }
21 public string TotalLandAcreQuantity { get; set; }
22 public string SpecialSpecialPumpFlag { get; set; }
23 public string SupplementalSupplyProgramApproval { get; set; }
24 public string WaterProviderCityLocationCode { get; set; }
25 public string WaterAccountClassificationCode { get; set; }
26 public string WaterPostingPatternCode { get; set; }
27 public string BorrowWaterApprovalFlag { get; set; }
28 public string GroundwaterBasinCode { get; set; }
29 public string GroundwaterEligibilityRestriction { get; set; }
30 public string AllowDemossWaterCode { get; set; }
31 public string AllowSpillWaterFlag { get; set; }
32 public string AllowMoneyOverdraftFlag { get; set; }
33 public string CurrentYearReleaseTypeCode { get; set; }
34 public string SubsequentYearReleaseTypeCode { get; set; }
35 public string LastWaterStatementDateTime { get; set; }
36 public string BillingStatusCode { get; set; }
37 public string LastBillingDateTime { get; set; }
38 public string SectionNumber { get; set; }
39 public string TownshipNumber { get; set; }
```


Example - Map your new
POCO to a view model

Recognize Queues That a Macro May Be Useful

- ✦ Obviously the primary clue that a macro is useful is having a set of keystrokes you will need to repeat
- ✦ Structured text is also a key indicator. Do these keystrokes need be repeated every x # of lines? Do they need to be repeated for each instance of a search term?

Helpful “tricks”

- ✦ Have useful search targets established
- ✦ If you have searched for text with ‘/’ or ‘?’, you will be able navigate the text with ‘n’ or ‘N’ when recording your macro.
- ✦ Same applies for the ‘*’ and ‘#’ keys

Example: Editing HTML

- ✦ First, we'll add a class to certain elements
- ✦ Next, let's change the name of a class

```
form name="settingsForm">
  <div class="tile is-vertical is-parent">
    <div class="tile is-child">
      <div class="field-body">
        <div class="field">
          <label class="label">Starting Balance</label>
          <div class="control">
            <input class="input" name="startingBalance" type="number">
          </div>
        </div>
      </div>
      <div class="field">
        <label class="label">Start Date</label>
        <div class="control">
          <input class="input" name="startDateName" mdInput [
s)="startDate.open()" [mdDatepicker]="startDate">
          <md-datepicker #startDate></md-datepicker>
        </div>
      </div>
      <div class="field">
        <label class="label">End Date</label>
        <div class="control">
          <input class="input" name="endDateName" mdInput [(n
endDate.open()" [mdDatepicker]="endDate">
          <md-datepicker #endDate></md-datepicker>
        </div>
      </div>
    </div>
  </div>
  <div class="tile is-child">
    <div class="field-body">
      <div class="field">
        <label class="label">Pay Amount</label>
```


Example: Multiple Files

- ✧ Macros aren't limited to the file you're editing
- ✧ I used one to copy my notes into an outline
- ✧ `'/^#'` - search

```
3 # Vim - A Whirlwind Tour
4 > Thomas Thornton (@tljtjr)
5
6 1. Why Vim?
7   * Available in most editors and operating systems
8   * Visual Studio, Emacs, and Sublime Text all have support
9   * Available as a standalone editor on Linux, Mac, and Windows
10  * Vim has NO competition as the premier way to efficiently edit code
11 2. [Download Vim!](https://vim.sourceforge.io/download.php)
12 ![alt text](https://github.com/tlajtjr/vim/raw/master/vim.png)
13
14 # Modes
15   * modes - normal, visual, edit
16
17   ![alt text](https://github.com/tlajtjr/vim/raw/master/modes.png)
18   * enter insert with 'i' (we'll see some more advanced commands later)
19   * insert mode is the ONLY mode most text editors have
20   * return to normal mode with ESC
21   * normal mode allows us to use the keyboard for navigation
22   * what's the advantage of this?
23   * ability to edit and navigate code from the same finger
24
25 # Movement in a File
26 1. searching with / and ?
27   * search from command line
28 2. \* and # with n, N
29   * find the word under the cursor
30 3. :{linenumber}
31   * to go to any line number
32 4. gg, G (gg - G)
33   * top or end of file
34 5. Ctrl + F or B, up or back page
```


Example: Macros within macros

- ✦ Macros can contain any keystrokes you choose. This includes keys which replay other macros.

Example: Keep reusable macros in your .vimrc

```
49 "#####
50 filetype on
51 filetype plugin on
52 filetype indent on
53
54 "#####
55 "# Down with double quotes!!!
56 let @q = "0:s/\\"/'/g^M"
57
58 "#####
59 "#
60 "# Programming Stuff
61 "#
62 "#####
63 set path+=include
64 set path+=lib
65 set tabstop=2
66 set softtabstop=2
67 set shiftwidth=2
68 set --tabstop=
```

- ✦ If you have macros you would like to always have access to; they can be stored in your .vimrc

Example: Edit your macros

- ✦ There are several ways to edit existing macros
- ✦ Use “ap to paste the macro into the editor (where a is the register where the macro is recorded)
- ✦ Edit the macro
- ✦ Use “ay\$ to copy the edited macro back into your register
- ✦ If you need to insert special characters into the macro (like Esc), in insert mode, press Ctrl+v, then the character