

# PowerSchool Customization

## #3 - jQuery and Page Fragments

Working on the "client-side"



# <https://goo.gl/xSZBtK>

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Link (or scan the code) to get a Google copy of this presentation.

Also posted at

[psugcal.org](http://psugcal.org)

(via the "Customization" link)

**PowerSchool Customization  
#3 - jQuery and Page Fragments**


Working on the "client-side"



# Reference/Credit



- W3Schools
  - <https://www.w3schools.com/>
- Adam Larsen at Aurora Educational Technology
  - <https://auroraedtech.com/about>
- Eric Schaitel's Customization Documentation  
<https://support.powerschool.com/exchange/view.action?download.id=772>  
*Marcia Brenner Associates* <https://mba-link.com/>
- HTML - CSS - JS: The Client-Side Of The Web
  - <https://html-css-js.com/>

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### Customization Reference

#### Description:

This PowerSchool plugin puts a powerful customization reference right on your PowerSchool server. Topics include the following.

- HTML/CSS
- JavaScript / jQuery
- PSHTML (PowerSchool Custom Codes)
- tlist\_sql

**ID 772** Download**+77**  
votes

#### Screenshots

[Click To Enlarge](#)

#### Additional Details

**HTML**

**PSHTML**

**CSS**

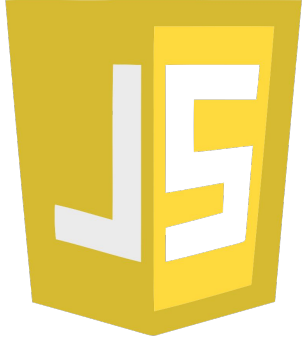
## The Languages of Customization

**JavaScript/JQuery**

**SQL**

**Angular**

# JavaScript

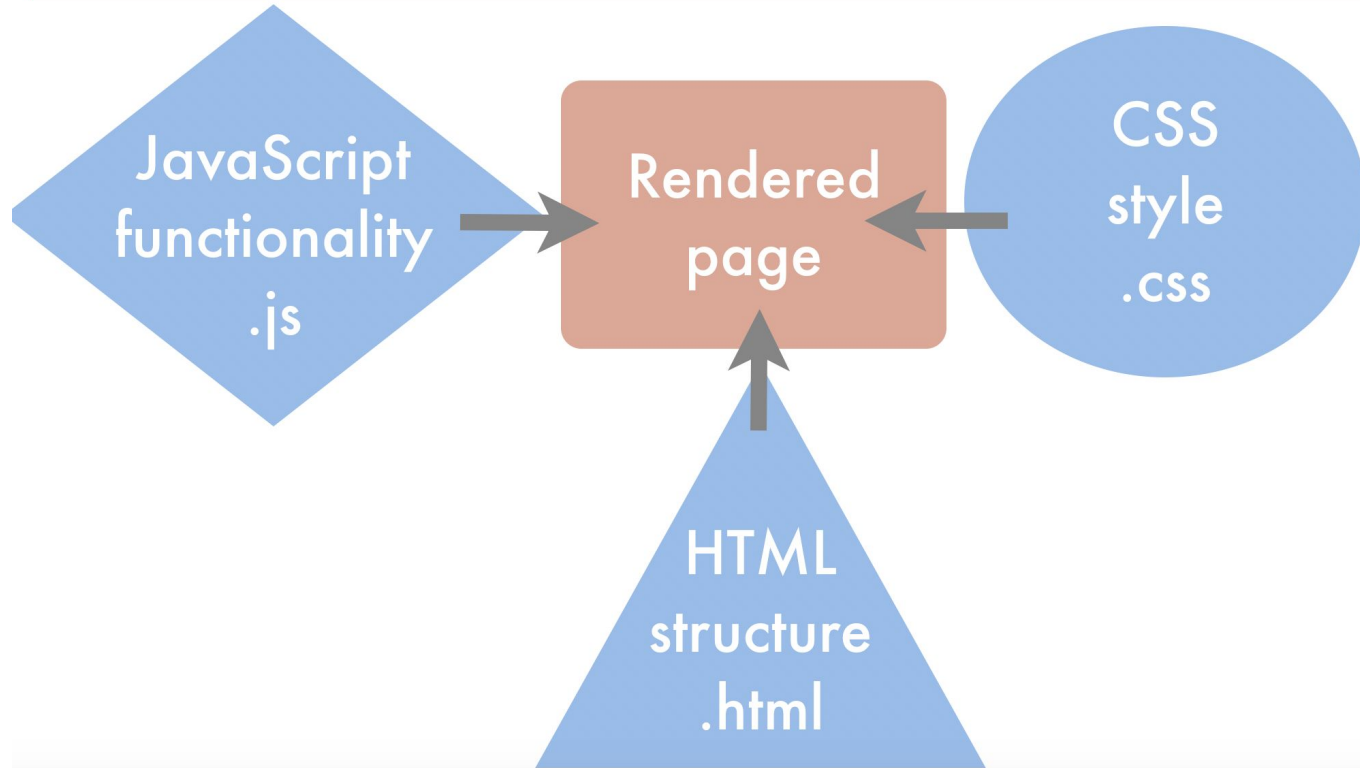


...one of the 3 languages all web developers must learn:

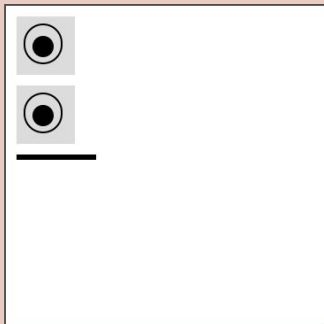
1. **HTML** to define the content of web pages
2. **CSS** to specify the layout of web pages
3. **JavaScript** to program the behavior of web pages

Source: <https://www.w3schools.com/js/default.asp>

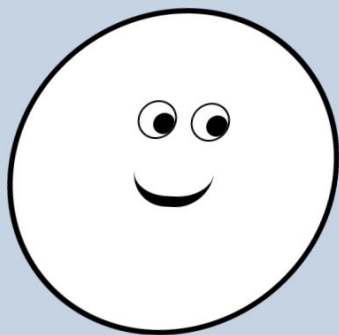
# The Big Picture



## HTML



## HTML + CSS



## HTML + CSS + JS

Click here to PLAY!



<https://html-css-js.com/>



# Javascript Demo

# My First JavaScript

Click me to display Date and Time.

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h2>My First JavaScript</h2>
```

```
<button type="button"
```

```
onclick="document.getElementById('demo').innerHTML = Date()">
```

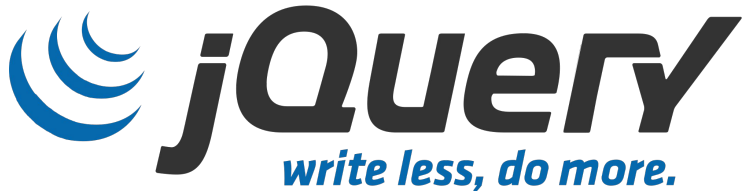
```
Click me to display Date and Time.</button>
```

```
<p id="demo"></p>
```

```
</body>
```

```
</html>
```

[https://www.w3schools.com/js/tryit.asp?filename=tryjs\\_myfirst](https://www.w3schools.com/js/tryit.asp?filename=tryjs_myfirst)



## ... a lightweight JavaScript library.

- The purpose of jQuery is to make it much easier to use JavaScript on your website.
- jQuery takes a lot of common tasks that require many lines of JavaScript code, and wraps them into methods that you can call with a single line of code.
- Deals with subtle differences between web browsers
- Very popular, free, and included in PowerSchool.

Source: [https://www.w3schools.com/jquery/jquery\\_intro.asp](https://www.w3schools.com/jquery/jquery_intro.asp)

<i>JavaScript</i>	<i>jQuery</i>
<p><b>Example:</b></p> <p><b>JavaScript ID Selector:</b></p> <pre>var \$el = document.querySelector('#hello');</pre> <p><b>JavaScript Class Selector:</b></p> <pre>var \$el = document.querySelector('.bye');</pre> <pre>Function changeBackground(color) { Document.body.style.background = color;} Onload="changeBackground ('red');"</pre>	<p><b>Example:</b></p> <p><b>jQuery ID Selector:</b></p> <pre>var \$el = \$("#hello");</pre> <p><b>jQuery Class Selector:</b></p> <pre>var \$el = \$('.bye');</pre> <pre>\$ ('body') .css ('background', '#ccc');</pre>

<http://www.lucemorker.com/blog/javascript-vs-jquery-quick-overview-and-comparison>

Example: Making a line of text change color

# Javascript

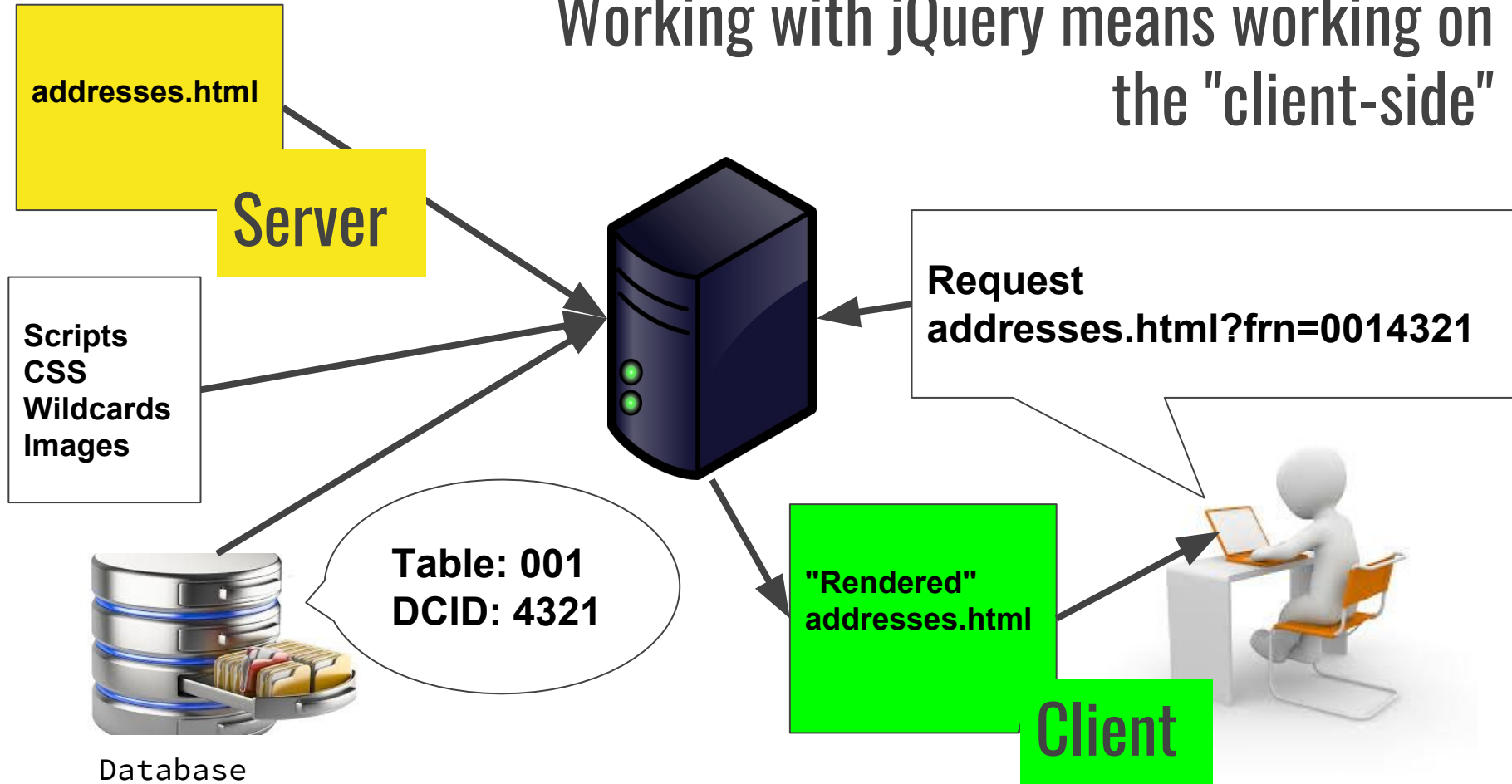
```
1  var d = document.getElementsByClassName("goodbye");
2  var i;
3  for (i = 0; i < d.length; i++) {
4      d[i].className = d[i].className + " selected";
5  }
```

# jQuery

```
1  $(".goodbye").addClass( "selected" );
```

<https://learn.onemonth.com/jquery-vs-javascript/>

# Working with jQuery means working on the "client-side"

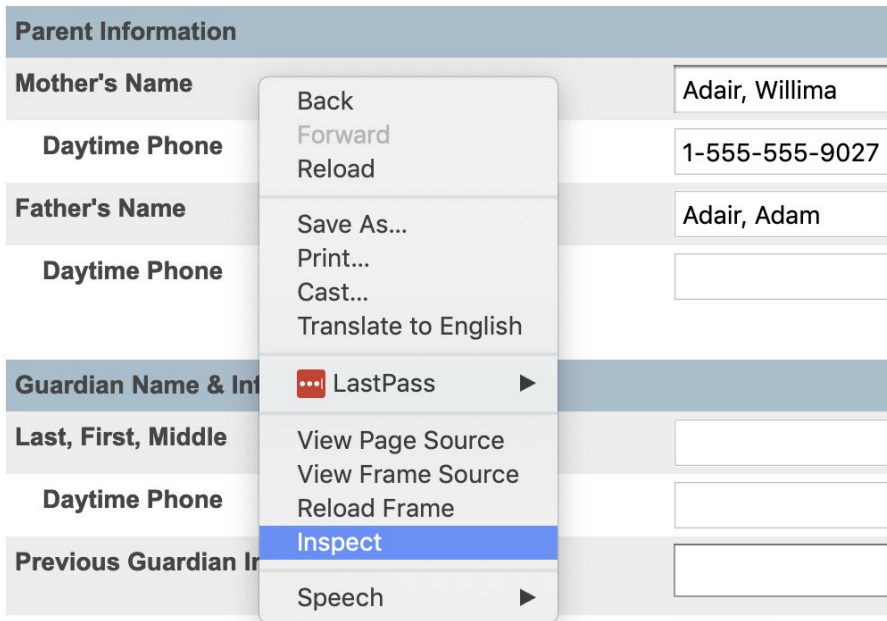


# Web Developer Tools

---

Learn how to "inspect" the client side code of PowerSchool pages.

- In most browsers it's as simple as right-clicking (ctrl-clicking) on an element and choosing "Inspect"



# jQuery Basics - \$j

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The jQuery object on PowerSchool pages is aliased as \$j

- jQuery documentation uses `$()`
- PS pages require `$j()`

**Tip:** You'll find all sorts of example of jQuery code on the Internet, just remember:

**Change \$ to \$j**

# jQuery Basics - How to include in your pages

---

**Include the  
commonscripts  
wildcard**

```
<!DOCTYPE html>
<html>
<head>
  <title>Page Title</title>
  ~[wc:commonscripts]
  <script type="text/javascript">
    jQuery Code Goes Here
  </script>
</head>
<body>
  Page Content Goes Here
</body>
</html>
```



# The <script> Tag

---

In HTML, JavaScript code must be inserted between <script> and </script> tags.

```
<script>
    $j(function() {
        /* Demographics View Link */
        html = '';
        html += '<li>';
        html += '<a href="demo.html?frn=~(studentfrn)">';
        html += 'Demographics View';
        html += '</a></li>';
        $j("[href^='morecustom.html']").closest("li").after(html);
    });
</script>
```

# JavaScript in `<head>` or `<body>`

---

- You can place any number of scripts in an HTML document.
- Scripts can be placed in the `<body>`, or in the `<head>` section of an HTML page, or in both.
- It's common to see scripts at the very bottom of the page before the `</body>` tag

# External Javascript

- Scripts can also be placed in external files
- JavaScript files have the file extension **.js**
- To use an external script, put the name of the script file in the src (source) attribute of a <script> tag:

```
<script src="myScript.js"></script>
```

- Placing scripts in external files has some advantages:
  - It separates HTML and code
  - It makes HTML and JavaScript easier to read and maintain
  - Cached JavaScript files can speed up page loads

# The Document Ready Event

---

You may notice that most jQuery is written inside something like this (called a "Document Ready Event"):

This is to make sure the document is completely loaded (ready) before running any jQuery.

- It also isolates your code from other code that might otherwise conflict (i.e. - same variable names)

```
$j(document).ready(function(){  
    // jQuery methods go here...  
});
```

```
$j(function(){
```

**Even shorter**

```
    // jQuery methods go here...  
});
```

# jQuery Basics - Writing jQuery code

---

```
$j(selector).action();
```

SELECT something ...

... and then DO something with it

## Examples:

`$j(this).hide()` - hides the current element.

`$j("p").hide()` - hides all `<p>` elements.

`$j(".test").hide()` - hides all elements with `class="test"`.

`$j("#test").hide()` - hides the element with `id="test"`.

# Selectors

---

**Common selectors are id and class**

- Select element by ID – **`$j('#elementID')`**
  - The id selector will operate on a single element. No two elements in a document should be given the same id.
- Select element by class – **`$j('.className')`**
  - The class selector can operate on a single element or multiple elements with the same class attribute.

# Selectors

---

- Element selectors
  - `$j('p')` - Select all the paragraph elements
  - `$j('ul')` - Select all unordered lists `<ul>`
- Combine multiple selectors with commas
  - `$j("h1,div,p")` All `<h1>` **OR** `<div>` **OR** `<p>` elements

**Double or Single quotes?** Selectors are enclosed in quotes. They can be either single quotes or double quotes. If the inner text contains quotes, be sure the inner quotes are the opposite of the outer.

# Selectors

---

- id and class are often combined with the element type
  - **`$j('div.box-round')`**  
Selects all `<div>` tags that have the `box-round` class
  - **`$j('p#student_detail_header')`**  
Selects the `<p>` tag with id of `student_detail_header`



# Selectors

---

- Spaces are used to select "descendents", or elements WITHIN another element
  - `$j('ancestor descendent')`
  - `$j('ul#std_information li')`  
Selects `<li>` tags that are descendants of a `<ul>` tag with the id of `std_information`

```
<ul id="std_information">  
  <li>...</li>  
  <li>...</li>  
  
</u>
```

# Example: Select by ID

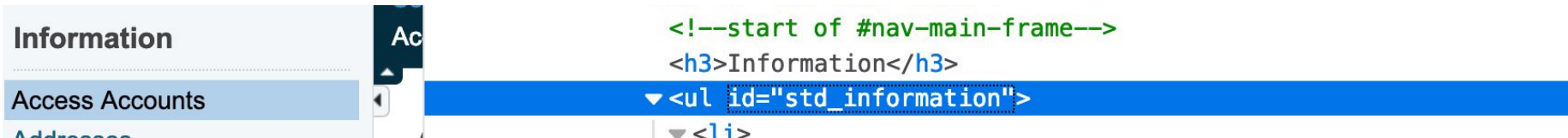
— — — Add a link to the "Information" section of the student left nav

The screenshot displays a web application interface on the left and a browser's developer tools on the right. The interface features a sidebar with a top section containing links: "Quick Lookup", "Print A Report", "Switch Student", and "List (211)". Below this is an "Information" section with a list of items: "Access Accounts", "Addresses", "Attachments", "Contacts", "Custom Screens", "Demographics", "Emergency/Medical", and "Family". The "Access Accounts" item is highlighted. The developer tools on the right show the DOM tree with the "Inspector" tab selected. The tree structure is as follows:

- `<div id="container-frame-menu">`
  - `<div id="nav-main-frame-secondary">`
  - `<div id="nav-main-frame">`
    - `<!--start of #nav-main-frame-->`
    - `<h3>Information</h3>`
    - `<ul id="std_information">`
      - `<li>`
        - `<a href="accessaccounts.html?frn=0012">Access Accounts</a>`
      - `</li>`
      - `<li>`
      - `<li>`
      - `<li>`
      - `<li>`
      - `<li>`
      - `</li>`

# Example: Select by ID

— — — Add a link to the "Information" section of the student left nav



```
<!--AET Custom Alerts Begin-->
```

```
<script>
```

```
$j(document).ready(function()
```

```
{
```

```
    $j("ul#std_information").append("<li><a  
href='aet_customalerts.html?frn=~(frn) '>Custom  
Alerts</a></li>");
```

```
...
```

**Custom Alerts Example**

# Example: Select by class

--- Select all the rows with class="oddRow"

## Special Functions

- Function
- Assign IDs & Passwords
- Attendance Functions
- Current Users
- Daily Bulletin Setup
- Enroll New Student
- Fee Functions
- Group Functions
- Health Management

Developer Tools - Special Functions - https://ps11.p

Inspector Console Debugger {} Style Editor

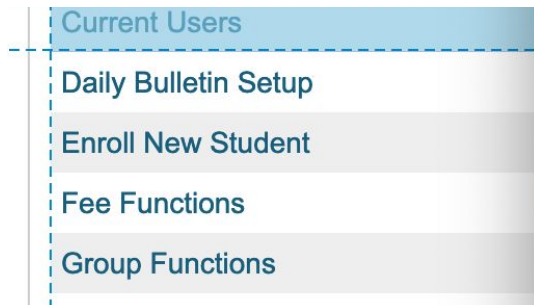
+

Search HTML

event

```
<h1>Special Functions</h1>
<div class="box-round">
  <table cellpadding="0" cellspacing="4" border="0">
    <tbody>
      <tr class="headerRow"> ... </tr>
      <tr class="oddRow"> ... </tr>
      <tr class="evenRow"> ... </tr>
      <tr class="oddRow"> ... </tr>
      <tr class="evenRow"> ... </tr>
      <tr class="oddRow"> ... </tr>
      <tr class="evenRow"> ... </tr>
```

# Example: Select by class



A screenshot of a web application menu. The menu has a light blue header row labeled 'Current Users'. Below it are several rows with alternating light gray and white backgrounds, creating a zebra striping effect. The items in the menu are: 'Daily Bulletin Setup', 'Enroll New Student', 'Fee Functions', and 'Group Functions'. The 'Fee Functions' row is highlighted with a light blue background.

Current Users
Daily Bulletin Setup
Enroll New Student
Fee Functions
Group Functions



A screenshot of HTML source code showing a table body. The code is as follows:

```
<tbody>  
  <tr class="headerRow"> ... </tr>  
  <tr class="oddRow"> ... </tr>  
  <tr class="evenRow"> ... </tr>  
  <tr class="oddRow"> ... </tr>  
  <tr class="evenRow"> ... </tr>  
  <tr class="oddRow"> ... </tr>  
  <tr class="evenRow"> ... </tr>
```

```
// Fix zebra striping - first change all oddRow classes to evenRow  
$j('tr.oddRow').attr('class', 'evenRow');
```

```
//now reassign oddRow to the correct odd rows  
$j('tr.evenRow:odd').attr('class', 'oddRow');
```

From "Add Reset Class Counts to Special Functions" at [psugcal.org](https://www.psugcal.org/index.php?title=Customization)  
<https://www.psugcal.org/index.php?title=Customization>

# More selectors

— — —

The **Documentation Reference Plugin** has a more comprehensive list of selectors in the jQuery section

Selector	Example	Selects
<b>#id</b>	<code>\$("#lastname")</code>	The element with id="lastname"
<b>.class</b>	<code>\$(".intro")</code>	All elements with class="intro"
<b>.class,.class</b>	<code>\$(".intro,.demo")</code>	All elements with the class "intro" or "demo"
<b>element</b>	<code>\$("p")</code>	All <p> elements
<b>el1,el2,el3</b>	<code>\$("h1,div,p")</code>	All <h1>, <div> and <p> elements
<b>parent descendant</b>	<code>\$("div p")</code>	All <p> elements that are descendants of a <div> element
<b>:first</b>	<code>\$("p:first")</code>	The first <p> element
<b>:last</b>	<code>\$("p:last")</code>	The last <p> element
<b>:even</b>	<code>\$("tr:even")</code>	All even <tr> elements
<b>:odd</b>	<code>\$("tr:odd")</code>	All odd <tr> elements
<b>:eq(index)</b>	<code>\$("ul li:eq(3)")</code>	The fourth element in a list (index starts at 0)

# Test your selector skills

— — —

<https://yourservername/admin/district/customizationDocs/jsjq.html>

The jQuery section of the **Documentation Reference Plugin** has a great interactive tool to test your selector skills

Use the text box below to test you jQuery selector skills.

`$j('`

`').addClass("selectorMatch");`

Test

Div (id="testDiv")

Span 1

Span 2

Span 3

Span 4 (class="specialSpan")

Span 5 (class="specialSpan")

A span not contained in the testDiv.

Col 1	Col 2	Col 2
1:1	1:2	1:3
2:1	2:2	2:3
3:1	3:2	3:3
4:1	4:2	4:3

# Selector Test Exercises

— — — Test these selector challenges (answers on next slide)

1	element with id="testDiv"	
2	elements with class="specialSpan"	
3	all the <span> elements	
4	all the <span> elements with class="specialSpan"	
5	all the <span> elements inside the div with id="testDiv"	
6	the <span> element NOT inside the testDiv	
7	the <table> element	
8	the <tr> elements	



# Selector Test Exercises #1 (ANSWER KEY)

— — —

1	element with id="testDiv"	#testDiv
2	elements with class="specialSpan"	.specialSpan
3	all the <span> elements	span
4	all the <span> elements with class="specialSpan"	span.specialSpan
5	all the <span> elements inside the div with id="testDiv"	#testDiv span
6	the <span> element NOT inside the testDiv	span:not(#testDiv span)
7	the <table> element	table
8	the <tr> elements	tr

# Selector Test Exercises #2

--- Test these selector challenges (answers on next slide)

9	table row 3 (which is the 4th row counting the header)	
10	all the even rows / all the odd rows	
11	cell 3:2 in the table	
12	the span that contains the text "Span 3"	
13	table row 2 and higher	
14	all table rows except the last one	
15	all the <span> elements AND all the <tr> elements	
16	CHALLENGE: the 1st column in the table (the 2nd? 3rd?)	

# Selector Test Exercises #2 (ANSWER KEY)

— — —

9	table row 3 (which is the 4th row counting the header)	table tr:eq(3)
10	all the even rows / all the odd rows	tr:even / tr:odd
11	cell 3:2 in the table	table tr:eq(3) td:eq(1)
12	the span that contains the text "Span 3"	span:contains("Span 3")
13	table row 2 and higher	table tr:gt(1)
14	all table rows except the last one	table tr:lt(4)
15	all the <span> elements AND all the <tr> elements	span,tr
16	CHALLENGE: the 1st column in the table (the 2nd?)	table tr td:first-child table tr td:nth-child(2)

# Useful Selector in PowerSchool - Attribute

---

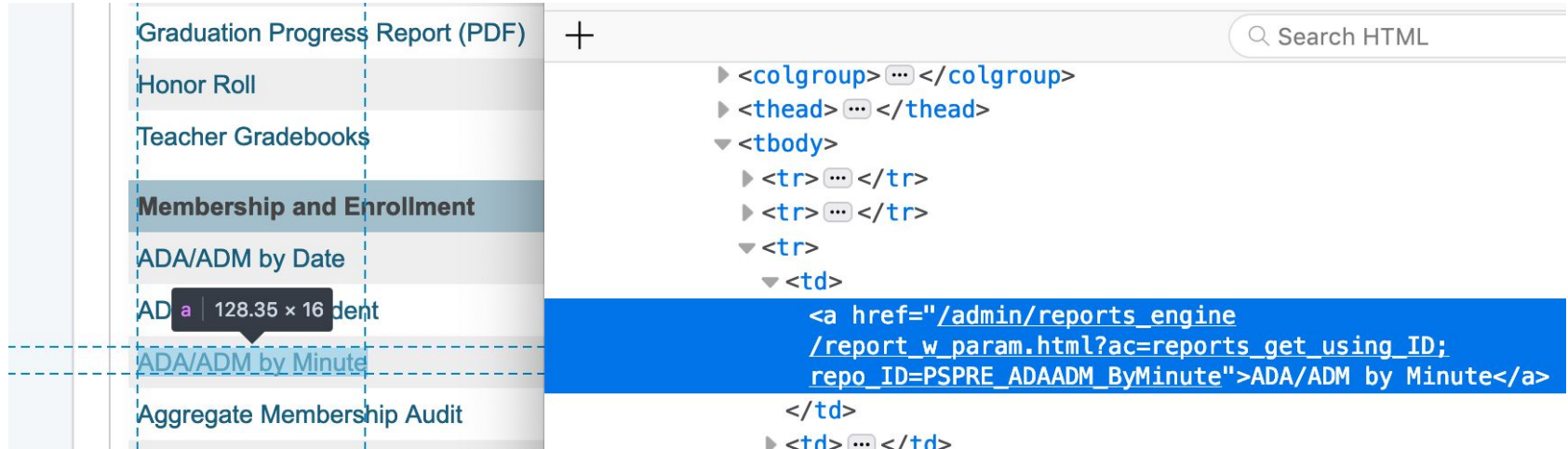
- `$j("[attribute='value']")` – Attribute selector
  - Sometimes useful if all you have is the name  
`$j("input[name='userSentContact.email']")`

Other operators include:

- Contains: `*=`
- Starts with: `^=`
- Ends with: `$=`

# Useful Selector in PowerSchool - Attribute "contains"

Often PowerSchool does not have ids or classes in the code - learning to select by partial name match is very useful

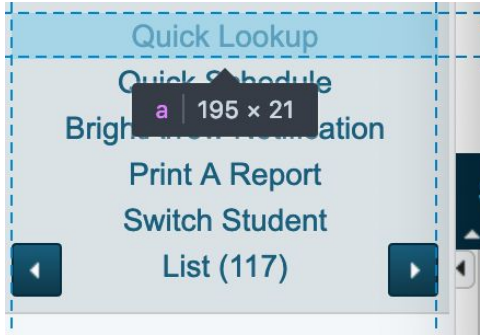


The screenshot displays the PowerSchool interface with a table of reports on the left and its corresponding HTML code on the right. The table includes links like 'Graduation Progress Report (PDF)', 'Honor Roll', 'Teacher Gradebooks', 'Membership and Enrollment', 'ADA/ADM by Date', 'ADA/ADM by Minute', and 'Aggregate Membership Audit'. The 'ADA/ADM by Minute' link is highlighted. The HTML code on the right shows the structure of the table, with the highlighted link's HTML code expanded to show the href attribute: `<a href="/admin/reports_engine/report_w_param.html?ac=reports_get_using_ID;repo_ID=PSPRE_ADAADM_ByMinute">ADA/ADM by Minute</a>`.

Report Name	HTML Code
Graduation Progress Report (PDF)	<code>&lt;colgroup&gt; ... &lt;/colgroup&gt;</code>
Honor Roll	<code>&lt;thead&gt; ... &lt;/thead&gt;</code>
Teacher Gradebooks	<code>&lt;tbody&gt;</code>
Membership and Enrollment	<code>&lt;tr&gt; ... &lt;/tr&gt;</code>
ADA/ADM by Date	<code>&lt;tr&gt; ... &lt;/tr&gt;</code>
ADA/ADM by Minute	<code>&lt;a href="/admin/reports_engine/report_w_param.html?ac=reports_get_using_ID;repo_ID=PSPRE_ADAADM_ByMinute"&gt;ADA/ADM by Minute&lt;/a&gt;</code>
Aggregate Membership Audit	<code>&lt;td&gt; ... &lt;/td&gt;</code>

```
$j("a[href*='PSPRE_ADAADM_ByMinute']").remove();
```

# Useful Selector in PowerSchool - Attribute "starts with"



```
<p>  
  <a href="quicklookup.html?frn=00110611">Quick Lookup</a>  
</p>  
> <p> ... </p>  
> <p class="balink"> ... </p>  
> <p> ... </p>  
> <p> ... </p>  
> <p class="navPrevNext"> ... </p>  
...
```

```
6 <script>  
7   $j(function() {  
8     /* Quick Schedule Link */  
9     var html += '<p><a href="schedulelistpop.html?frn=~(studentfrn)">Quick Schedule</a></p>';  
10    $j("[href^='quicklookup.html']").closest("p").after(html);  
11  }
```

`$j("[href^='quicklookup.html']").closest("p").after(html);`

# jQuery Basics - action

---

```
$j(selector).action();
```

SELECT something ...

... and then DO something with it

## Examples:

`$j(this).hide()` - hides the current element.

`$j("p").hide()` - hides all `<p>` elements.

`$j(".test").hide()` - hides all elements with `class="test"`.

`$j("#test").hide()` - hides the element with `id="test"`.

# jQuery actions (or methods, or functions)

---

After selecting an element or a group of elements, apply an action

- Many uses
  - Select parent or descendant elements (traversing the tree)
  - Change CSS styling
  - Add content before or after
  - Remove
  - Hide or Show
  - Clone
  - Events



**html(htmlValue);** - Set the inner HTML of an element

```
<tr class="bold"><td colspan="2" id="firstCell"></td></tr>  
<tr class="even-row">
```

```
<script type="text/javascript">  
    $j(document).ready(function(){  
        $j('#firstCell').html('Document is Ready.');        $j('#getValue').click(function(){
```

Document is Ready.

Get Value



**click(function(){do something});** – Set an event listener to run a function when an element is clicked.  
**val();** – Retrieve the value of an input

```
class= even row >  
<td><button id="getValue">Get Input Value</button></td>  
<td>  
  <select id="colorSelector">  
    <option value="red">Red</option>  
    <option value="blue">Blue</option>  
    <option value="green">Green</option>  
  </select>  
</td>
```

red

Get Input Value



Red



```
$j( window.onload ).ready( function() {  
  $j( '#getValue' ).click( function() {  
    alert( $j( '#colorSelector' ).val() );  
  } );  
  $j( '#getValueButton' ).click( function() {
```

`val(someValue);` - Set the value of an input

```
<tr>
  <td><button id="setValueButton">Set Input Value</button></td>
  <td><input type="text" id="setMyVal" value="I have a value"/></td>
</tr>
```

Set Input Value

I have a value

```
});
$('#setValueButton').click(function(){
  $('#setMyVal').val('I have been reset');
});
```

Set Input Value

I have been reset



**change(function(){do something});** - Set an event listener to run a function when an input's value is changed.

```
<tr class="even-row">
  <td>
    <select id="changeListener">
      <option value="First_value">First</option>
      <option value="Second_value">Second</option>
    </select> - "I'm listening for a change."
  </td>
  <td id="changeCell"></td>
```

First



- "I'm listening for a change."

```
$j('#changeListener').change(function(){
  $j('#changeCell').html($j('#changeListener').val());
});
```

Second



- "I'm listening for a change."

Second\_value



**hide();** - Hide an element

```
<tr>
  <td><button id="hideButton">I Hide Stuff</button></td>
  <td><p id="hideMe">Make me disappear.</p></td>
</tr>
```

I Hide Stuff

Make me disappear.



```
$j('#hideButton').click(function(){
  $j('#hideMe').hide();
});
```

I Hide Stuff

`show()`; - Show an element

```
<tr class="even-row">
  <td><button id="showButton">I Show Stuff</button></td>
  <td><p style="display:none" id="showMe">I was hiding.</p></td>
</tr>
```

I Show Stuff	
--------------	--



```
$j('#showButton').click(function(){
  $j('#showMe').show();
});
```

I Show Stuff	I was hiding.
--------------	---------------

**toggle();** - Similar to hide() and show(), it toggles the visibility of an element

- If the element is visible it will hide it
- If the element is hidden it will display it






`css("propertyname","value");` - Sets the CSS property of an element

```
<tr class="even-row">
  <td><button id="showButton">I Show Stuff</button></td>
  <td><p style="display:none" id="showMe">I was hiding.</p></td>
</tr>
```



```
$j('#classChanger').click(function(){
  $j('.even-row td').css('background-color','#FF69B4');
});
```

Document is Ready.

Get Input Value	Red 
Set Input Value	<input type="text" value="I have a value"/>
First  - "I'm listening for a change."	
I Hide Stuff	Make me disappear.
I Show Stuff	
Change Style	



Document is Ready.

Get Input Value	Red 
Set Input Value	<input type="text" value="I have a value"/>
First  - "I'm listening for a change."	
I Hide Stuff	Make me disappear.
I Show Stuff	
Change Style	



**append()** - Inserts content *inside* the selected element(s) at the end

```
$j("ul#std_information").append("<li>  
<a href='newPage.html?frn=~(frn)'  
New Page Link</a></li>");
```

**New Page Link**

**Note:** **prepend()** is similar, it would just put the content at the beginning of the element.

#### Information

- Access Accounts
- Addresses
- Attachments
- Contacts
- Custom Screens
- Demographics
- Emergency/Medical
- Family
- Health
- Modify Info
- Other Information
- Student Email
- Parents
- Photo
- State/Province - MS
- Transportation

<h3>Information</h3>

▼ <ul id="std\_information">

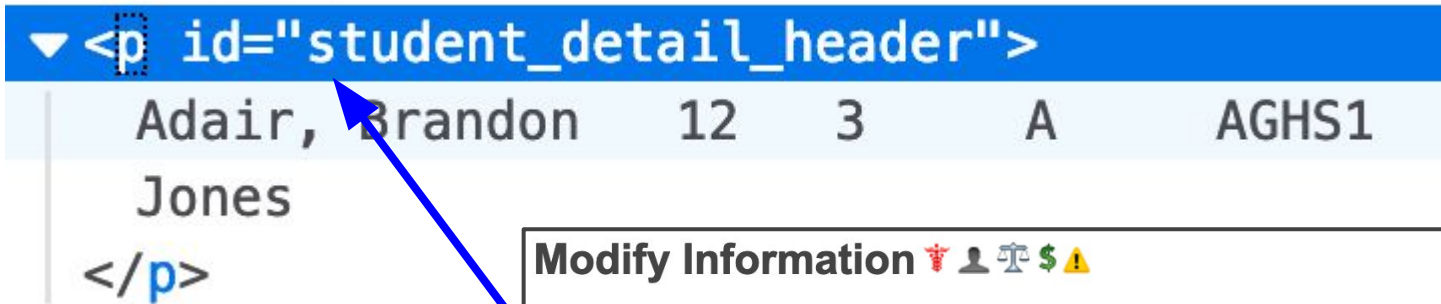
- ▶ <li> ... </li>
- ▶ <li> ... </li>
- ▶ <li> ... </li>
- ▶ <li> ... </li>
- ▶ <li> ... </li>
- ▶ <li> ... </li>
- ▶ <li> ... </li>
- ▶ <li> ... </li>
- ▶ <li> ... </li>
- ▶ <li> ... </li>
- ▶ <li> ... </li>
- ▶ <li> ... </li>
- ▶ <li> ... </li>
- ▶ <li> ... </li>
- ▶ <li> ... </li>

</ul>

<h3>Academics</h3>

**append()** - Inserts content *inside* the selected element(s) at the end

```
$j('p#student_detail_header').append('~([01]home_room)');
```



```
<script>  
$j(function(){  
$j('p#student_detail_header')  
.append('~([01]home_room)');  
});  
</script>
```

**Modify Information** 🏥 👤 ⚖️ 💰 ⚠️

Adair, Brandon	12	3	A	AGHS1	Jones
----------------	----	---	---	-------	-------


Family rep

☐

Graduation Requirement Set

High School Diploma ▾

Home Room

Jones 

**before()** and **after()** – Inserts content *outside* before or after selected element

`$j('#quickLookup table:eq(1) tr:last').after(linkrow);`

Jams, Mark B - Rm: 113	90	45	68					3	3	1	1
ench 2				D+	D+	D+		0	0	0	0
/ser, Kenneth - Rm: 209				68	69	69		0	0	0	0
eech	C	C+	C	A-	A	A-	B	1	1	0	0
ira, Colleen R - Rm: 115	74	78	76	93	96	95	86	1	1	0	0
urrent Affairs	A-	B+	A-	A-	D+	C+	B	0	0	0	0
anston, Greg T - Rm: 123	93	89	91	90	69.66	79.83	83.55	0	0	0	0
pen Media	A	D+	B					0	0	0	0
catino, Steve - Rm: 141	100	67	83					0	0	0	0
ysics				A-	B+	B+		0	0	0	0
artin, Gabriel U - Rm: 112				90	88	89		0	0	0	0
hammer Singers	A	A	A					0	0	0	0
erndt, Gordie E - Rm: 315	100	100	100					0	0	0	0
ys Ed 12	D+	C-	C-					0	0	0	0
axedon, Johnathon - Rm: LH23	69	70	70					0	0	0	0
pen Study				A	A	A		0	0	0	0
catino, Steve - Rm: LL				100	100	100		0	0	0	0
umalism	B	B+	B+	B+	A-	A-	B+	0	0	0	0
astings, Jacquelyn V - Rm: 217	86	88	87	89	90	90	89	0	0	0	0
Attendance Totals								4	4	1	1

Current average:  $170.4 \times 16.4667 = 6667$

Show dropped classes also

```

<!--end of content-->
<p id="student_detail_header">
  Adair, Brandon 12 3 A AGHS1 </p>
<!--start of tabs-->
<ul id="nav-secondary" class="tabs" role="tablist">
</ul>
<!--end of tabs-->
<!--start of content-->
<div id="quickLookup" class="box-round">
  <table class="linkDescList grid">
  <table width="100%" cellpadding="3" border="0">
    <tbody>
      <tr>
        <td align="center">
          <a href="quicklookup.html?frn=00126&schoolid=100&showdropped=true">
            Show dropped classes also</a>
        </td>
      </tr>
    </tbody>
  </table>
  <table class="center grid">
</div>
<!--end of content-->
<div id="cust-content-footer">
  ::after
</div>
<!--end content-main-->

```

**before()** and **after()** – Inserts content *outside* before or after selected element

```
$j('#quickLookup table:eq(1) tr:last').after(linkrow);
```

```
<script>
  var linkrow = '';
  linkrow += '<tr><td align="center">';
  linkrow += '<a href="mailto:~[tlist2;teachers]~(email_addr),[/tlist]"';
  linkrow += ' target="_blank">Email these Teachers</a>';
  linkrow += '</td></tr>';
  $j(function() {
    $j('#quickLookup table:eq(1) tr:last').after(linkrow);
  });
</script>
```

Current Simple GPA (S1): 2.6667

Show dropped classes also

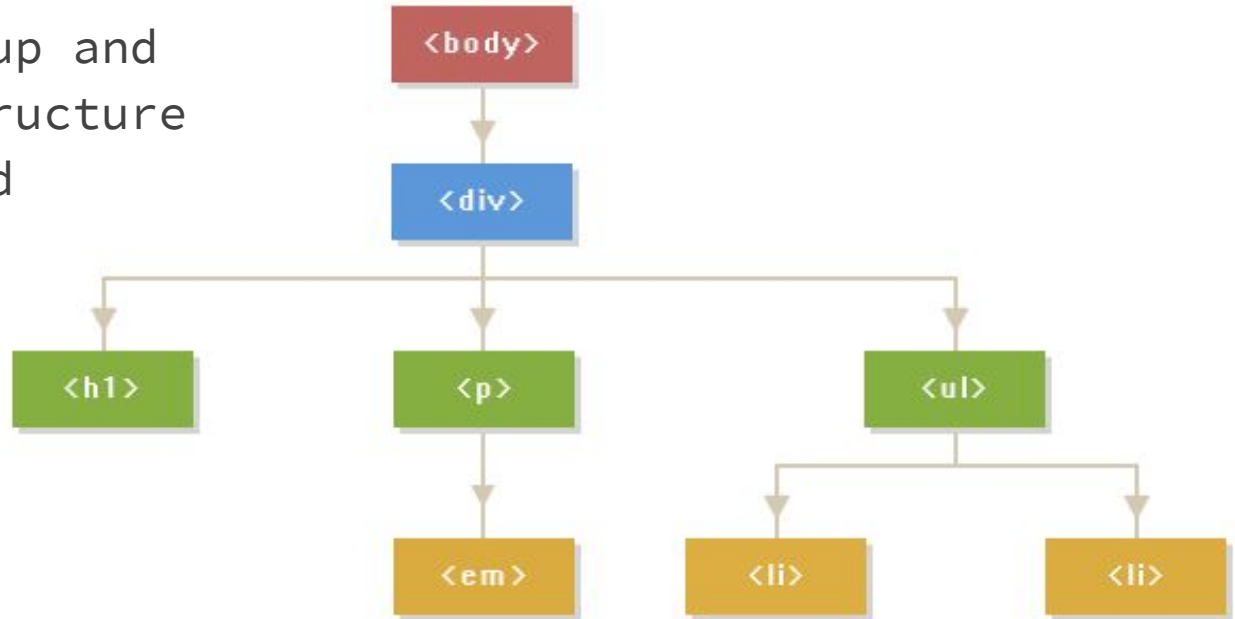


Email these Teachers

# Traversing methods

---

jQuery traversing methods help you navigate up and down the "tree" structure of the web page and select elements in context



**closest**(ancestor selector) - Jump up to first ancestor that matches given selector. *Very helpful in PowerSchool*

## Academics

a 195 x 22

Attendance

Enter Attendance

Cumulative Info

Graduation Plan Progress

Graduation Plan Selection

Want to add new link here

```
▶ <li> ... </li>
```

```
▼ <li>
```

```
<a href="/admin/attendance/record/week/meeting.html?frn=0012&ATT_RecordMode=ATT_ModeMeeting&autoThisWeek=1&setUserScreen=1">Enter Attendance</a>
```

```
</li>
```

Add a new `<li>` element after the `<li>` that contains the existing "Enter Attendance" link.

We can select the link itself with `^= "starts with":`  
`$j("a[href^='/admin/attendance/record/week/meeting.html']")`

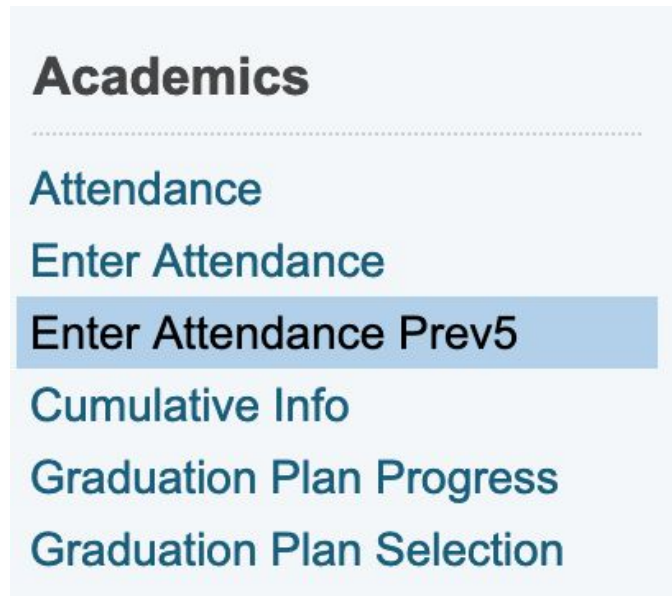
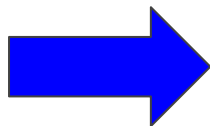
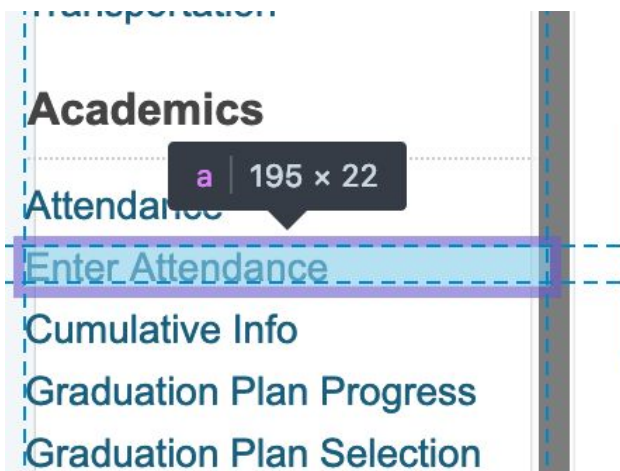
We can then select it's ancestor `<li>` with **closest("li")**  
*closest() doesn't care how many levels*

**closest(ancestor selector)** - Jump up to first ancestor that matches given selector. *Very helpful in PowerSchool*

```
<script>
$(function() {
    ~[if.~(studentscreenaccess;attendance.html)=1]
    /* "Enter Attendance Prev5" Link */
    var html = '';
    html += '<li>';
    html += '<a href="/admin/attendance/record/week/meeting.html?frn=~(studentfrn)';
    html += '&startdate=~[date;-5]';
    html += '&enddate=~[date;-1]';
    html += '&ATT_RecordMode=ATT_ModeMeeting&setUserScreen=1">';
    html += 'Enter Attendance Prev5';
    html += '</a></li>';
    $( "a[href^='/admin/attendance/record/week/meeting.html']" ).closest("li"
).after(html);
    [/if]

});
</script>
```

**closest**(ancestor selector) - Jump up to first ancestor that matches given selector. *Very helpful in PowerSchool*



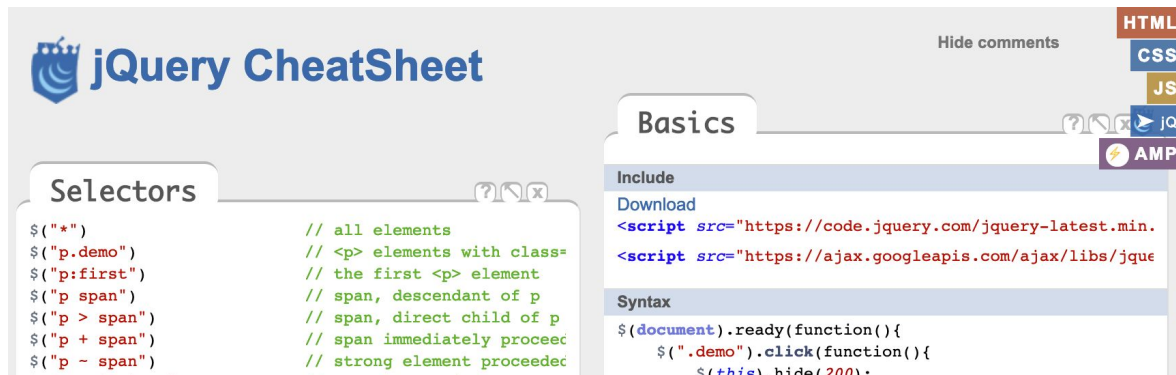


# Additional "Traversing" methods

— — —

- **parent()**
  - Jump up to parent element of selected element
  - `$j("td").parent();`
- **children(*child selector*)**
  - Selects child elements that match the selector
  - Use `children()` to select all direct descendants
  - ONLY the first generation of descendants
- **find(*descendant selector*)**
  - Selects descendant elements of given selector
  - ANY generation of descendants

# Even more...



- HTML - CSS - JS: The Client-Side Of The Web  
Nicely formatted "cheat sheets"
  - <https://html-css-js.com/>
- W3Schools
  - <https://www.w3schools.com/>
- Eric Schaitel's Customization Documentation  
<https://support.powerschool.com/exchange/view.action?download.id=772>

Marcia Brenner Associates <https://mba-link.com/>

# Page Fragments

"The best way to  
customize"



# Customization Problem

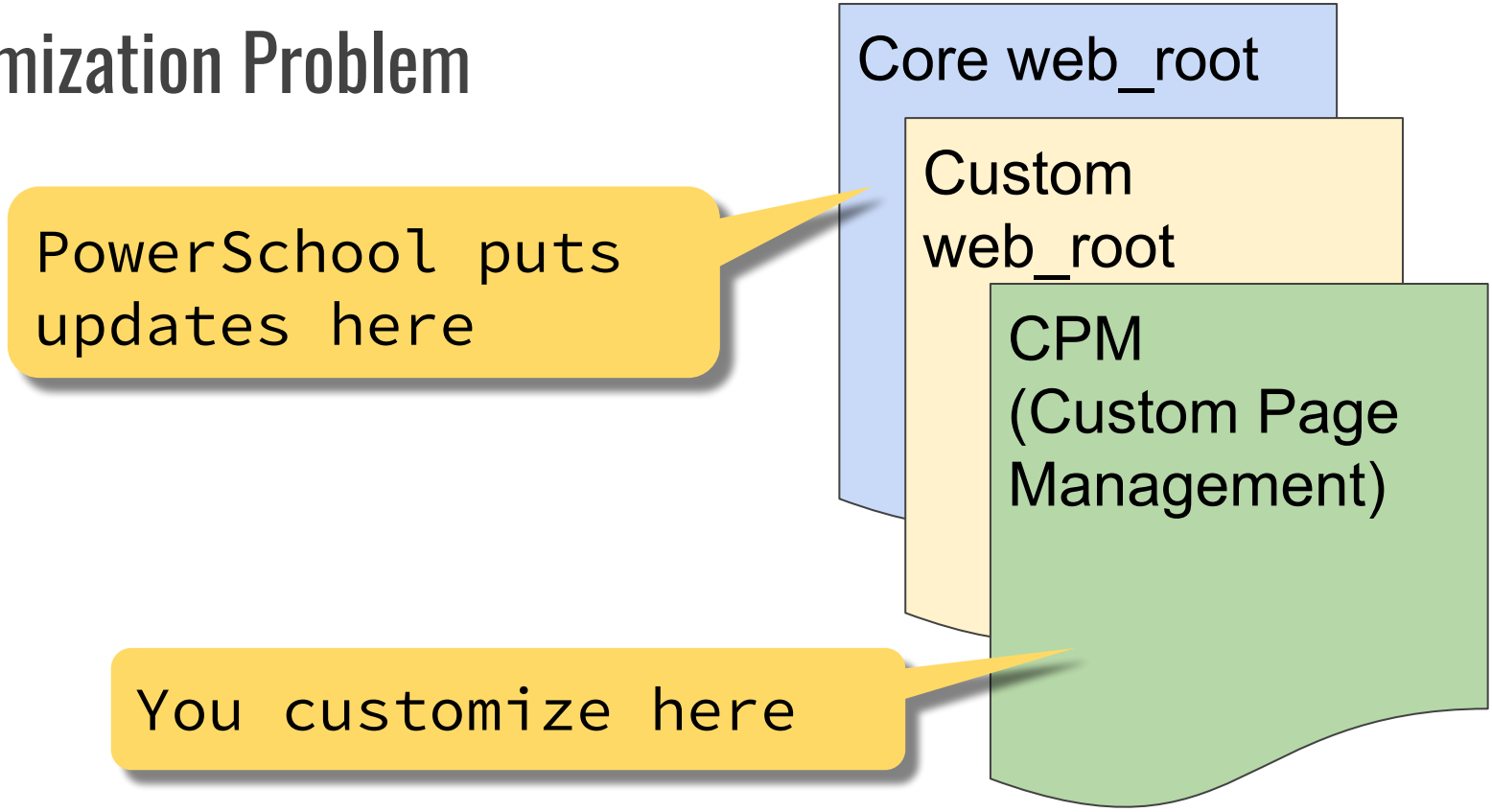
PowerSchool puts  
updates here

Core web\_root

Custom  
web\_root

CPM  
(Custom Page  
Management)

You customize here



# Customized Directly

Core more2.html

## Information

Access A  
Adresse  
Attachme  
Contacts  
Custom S

CPM more2.html

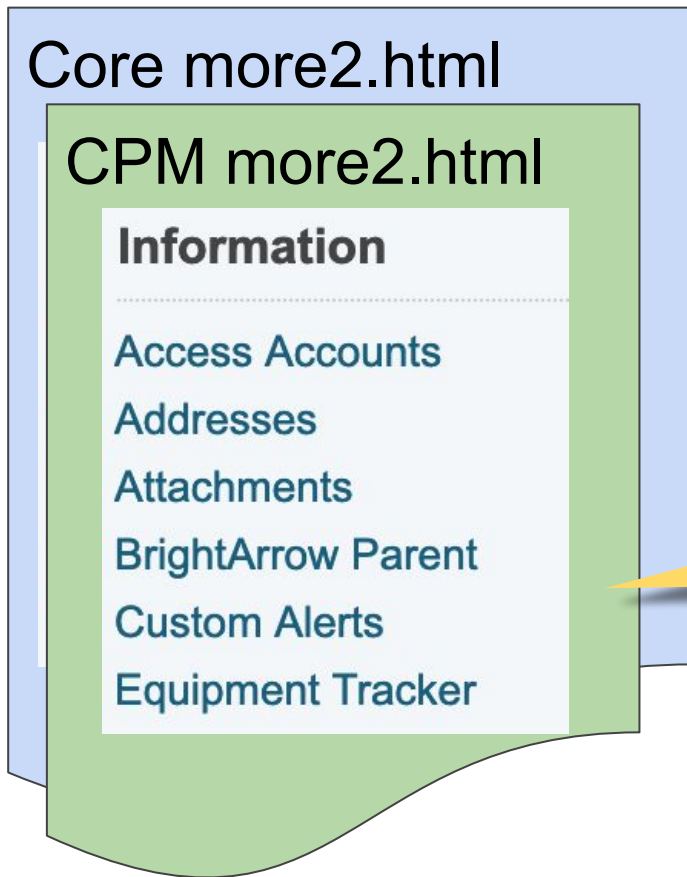
## Information

Access Accounts  
Addresses  
Attachments  
BrightArrow Parent  
Custom Alerts  
Equipment Tracker

Before  
Contacts  
came out you  
added other  
links

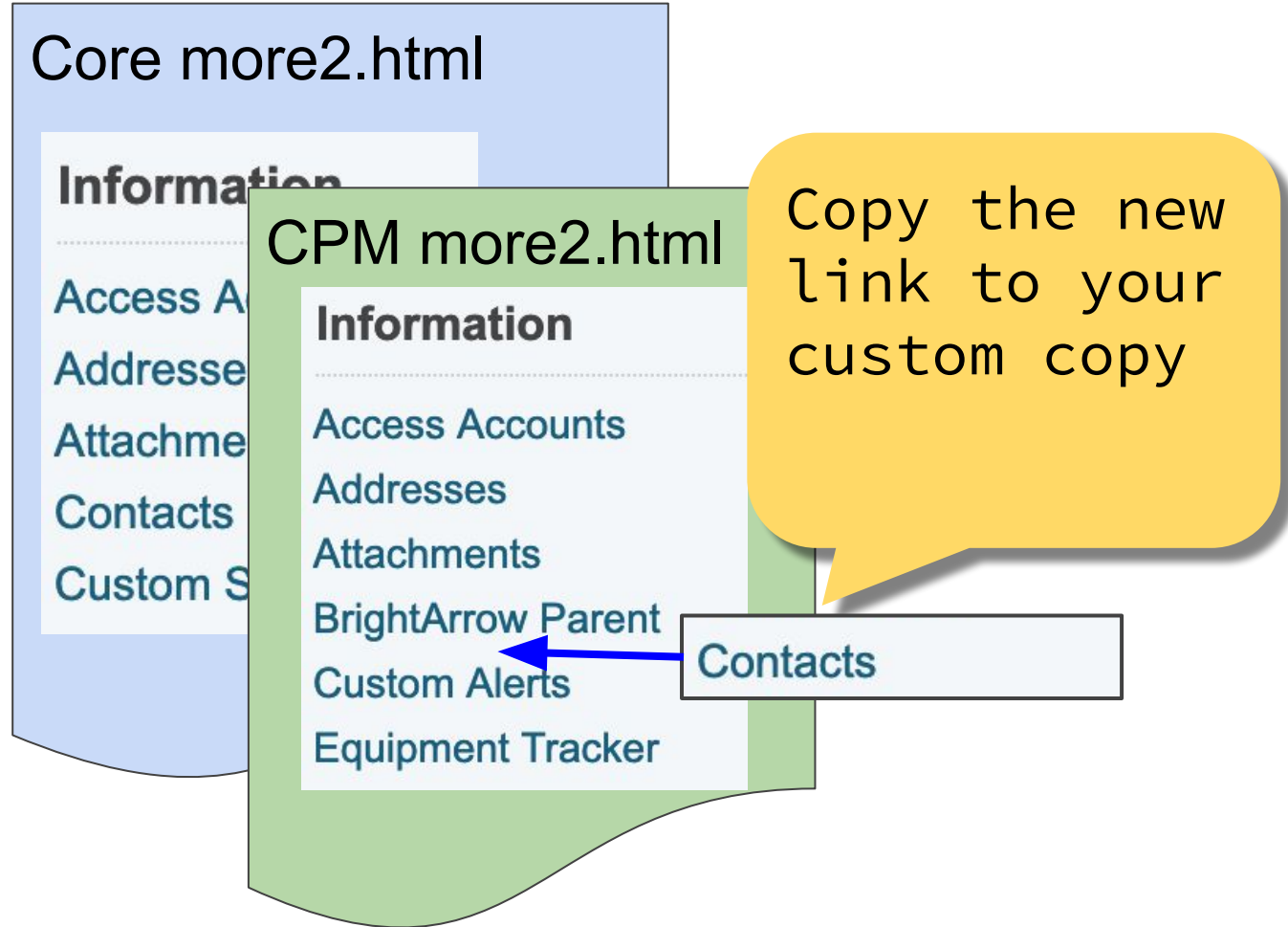
PowerSchool  
adds Contacts

# Customized Directly



No Contacts!

# Solution?



[illegible]



# Solution - Insertion Points and Page Fragments

---

Insertion points are special locations within the source code of a page where customizers can more easily insert dynamic content (page fragments).

**With insertion points, the original source page does not have to be customized in order to add new content to that page.** This can help dramatically cut down on the number of custom pages that need to be created and subsequently updated when a new version of PowerSchool is released.

# Standard Insertion Points

Quick Lookup  
Print A Report  
Switch Student  
List (211)

## Information

Access Accounts  
Addresses  
Attachments  
Contacts  
Custom Screens  
Demographics  
Emergency/Medical  
Family  
Health  
Modify Info  
Other Information  
Student Email  
Parents  
Photo  
State/Province - MS  
Transportation

## Academics

Attendance  
Enter Attendance  
Enter Attendance Prev5  
Cumulative Info

content.header

Welcome, 51 z51 | Help | Sign Out

School: Apple Grove High School Term: 18-19 Semester 2

Start Page > Student Selection > Addresses

## Addresses

student.alert

Adair, Brandon 12 3 A AGHS1 Jones

### Home Address

Street, Apt/Suite

1337 Greymont Ave

City, State, Zip

Jackson

Mississippi (MS)

39202

Geocode

Validate

### Mailing Address - Copy From Home Address

Street, Apt/Suite

1337 Greymont Ave

City, State, Zip

Jackson

Mississippi (MS)

39202

Geocode

Validate

Submit

leftnav.footer

content.footer

When rendering the page, PowerSchool will gather together all the page fragment insertions for that page and render them as inline HTML with the page. Note that each insertion point may have multiple inserted page fragments for any given page and will all be rendered on the page.

The following example displays the first few lines of code from the `admin_footer_css` wildcard:

```
<div id="cust-content-footer">~[cust.insertion_point:content.footer] </div>
<div id="legend" style="display:none;">
  <h3>~[text:psx.txt.wildcards.admin_footer_css.legend] </h3>
</div>
</div><!--end content-main-->
```

The very first line defines an insertion point with a name of `content.footer`.

Multiple page  
fragments in harmony

**BrightArrow**

**Custom Alerts**

**District Created**

**more2.html**

## Information

---

Access Accounts

Addresses

Attachments

BrightArrow Parent

Custom Alerts

Equipment Tracker

Custom Screens

# Why insertion points are awesome

— — —

- We use fragments to avoid customizing pages directly
- Allows updates by PowerSchool to continue. Our customizations work with stock pages instead of overriding them.
- Multiple fragments for different projects and from different providers can all exist on the same page

# Why insertion points are a little clumsy

— — —

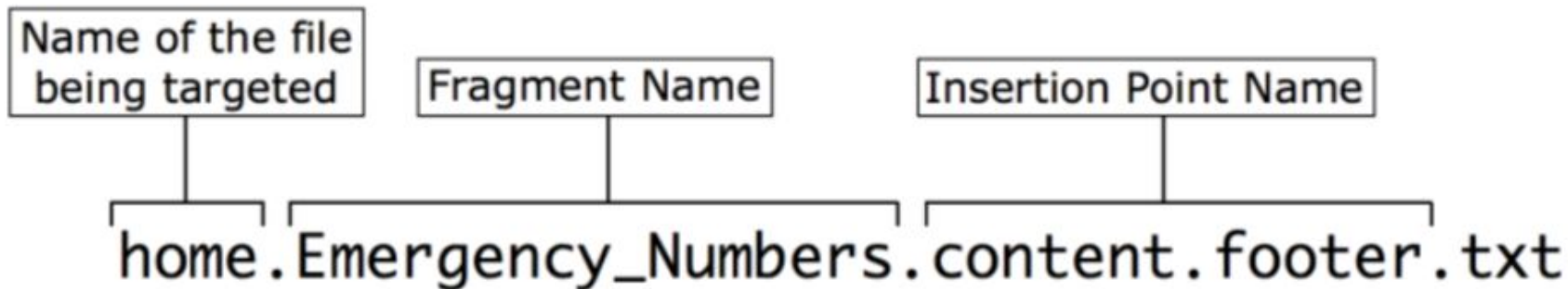
- The `content.footer` insertion point will put inserted content at the bottom of the page
- Not usually what we want
- Must learn to use **jQuery** to move content into the proper location

# The naming of your fragment is the key

---

Save your page fragments to the same directory where the source page or wildcard exists.

- **name\_of\_file** (without the “.html”) +
- **.name\_for\_page\_fragment** (whatever you want to name it) +
- **.insertion.point** (a common insertion point is “content.footer”) +
- **.txt**



**Stock Page=admin/home.html**

# Hello World on Home Page

**Fragment=admin/home.hello.content.footer.txt**

```
<p>Hello world! I'm an auto-inserted page fragment.</p>
```

## Functions

- Attendance
- Daily Bulletin
- Enrollment Summary
- Master Schedule
- Dashboard
- Special Functions
- Teacher Schedules

## Reports

- System Reports
- ReportWorks
- sqlReports

## People

- Student Search
- Staff Search
- Contact Search
- Enroll New Student
- New Staff Entry
- New Contact Entry

## Setup

- School
- System
- Personalize

Include Remote Enrollments View Field List [?]

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

9 10 11 12 M F All Stored Searches Stored Selections

### Current Student Selection (0)

The current selection is empty.

### What's New

See what's new in the latest feature release of PowerSch

Hello world! I'm an auto-inserted page fragment.

Hello world! I'm an auto-inserted page fragment.



# Page Fragment Examples



# Add Homeroom to Student Detail Header

# Add Homeroom to Student Detail Header

---

**Goal:** Add the student's homeroom information to the detail line that appears on all student pages

**Method:** Append the homeroom field to the wildcard used for the student detail line

**Modify Information** 🚑 👤 ⚖️ 💰 ⚠️

Adair, Brandon 12 3 A AGHS1 Jones

Family rep

☐

Graduation Requirement Set

High School Diploma ▾

Home Room

Jones 📄

# Add Homeroom to Student Detail Header

---

## Stock Page (wildcard):

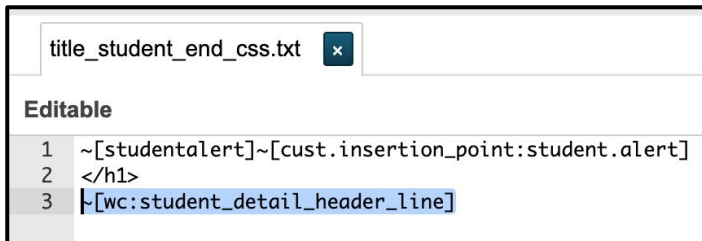
wildcards/student\_detail\_header\_line.txt

## Fragment:

wildcards/student\_detail\_header\_line.hr.content.footer.txt

```
[text:psx.html.admin_students.modifydata.student_selection]</a>
>~[text:psx.html.admin_students.modifydata.modify_information1]<!-- breadcrumb end -->~[wc:admin_navigation_frame_css]
~[wc:title_student_begin_css]~[text:psx.html.admin_students.modifydata.modify_information2]~[wc:title_student_end_css]

<!-- start of content and bounding box -->
<div class="box-round">
```



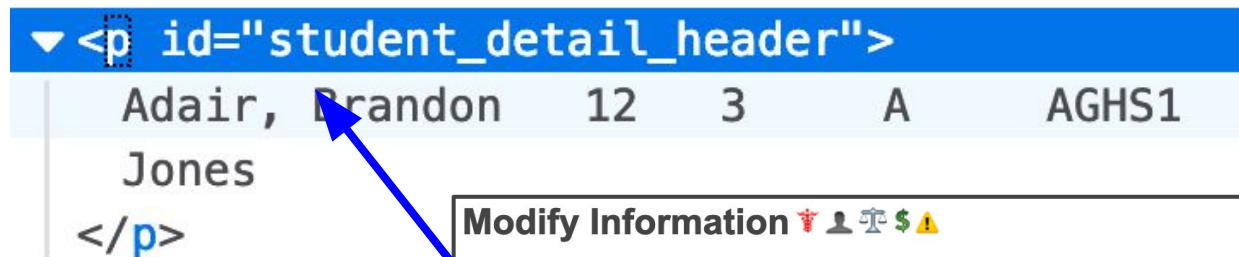
# Add Homeroom to Student Detail Header

---

**Selector:** `<p>` element with `id="student_detail_header"`

**Action:** append

**jQuery:** `$j('p#student_detail_header').append(___);`



**Modify Information** 🚑 👤 ⚙️ 💰 ⚠️

Adair, Brandon 12 3 A AGHS1 Jones

Family rep☐

Graduation Requirement SetHigh School Diploma ⌵

Home RoomJones 📋

wildcards/student\_detail\_header\_line.hr.content.footer.txt

```
<script>
$j(function(){
$j('p#student_detail_header').append('~([01]home_room)');
});
</script>
```

## Modify Information

Adair, Brandon 12 3 A AGHS1 Jones

Family rep

☐

Graduation Requirement Set

High School Diploma



Home Room

Jones



**Add Family\_Ident to Modify Info Screen**

# Add Family\_Ident field to Modify Info Screen

---

**Goal:** Use a Family ID field to help schools identify families as entities.

**Method:** Re-introduce the existing family\_ident field to the "Modify Info" screen, where the family\_rep field already is displayed.

Family_Ident (ver3.6.1)	Varchar(30)	No longer used by the application. This field may still be referenced on reports and/or custom pages.
-------------------------	-------------	---

**Data Dictionary Tables for PowerSchool 12.x**  
<https://support.powerschool.com/article/80621>





**Tip:** Use "Open Link in New Tab" to see the actual address

l.org/admin/students/modifydata.html?frn=00110



PowerSchool

[Start Page](#) > [Student Selection](#) > Modify Information

Address of stock page

## Modify Information

Insert at top of table

Allred, Jacee L 12 11 AGHS1 Bryant

Family rep ☐

Graduation Requirement Set

Home Room

Bryant

Locker Combination

34--07--23

Locker Number

202

# Add Family\_Ident field to Modify Info Screen

— — —

## **Stock Page:**

`admin/students/modifydata.html`

## **Fragment:**

`admin/students/modifydata.familyid.content.footer.txt`

# Add Family\_Ident field to Modify Info Screen

---

**Selector:** First row in the table **Action:** prepend

**jQuery:** `$j("table:first").prepend(___);`

## Modify Information

Allred, Jacee L 12 11 AGHS1 Bryant

Family rep

☐

Graduation

Requirement Set

Home Room

Bryant



Locker

34--07--23

Combination

```
▼<div class="box-round">
  ▼<table border="0" cellpadding="4" cellspacing="0"
    class="linkDescList">
    ▶<colgroup>...</colgroup>
    ▼<tbody>
    ▼<tr bgcolor="#edf3fe">
      <td class="bold">Family rep</td>
      ▼<td>
        ... <input type="hidden" name="EF-00110-
          StudentCoreFields.family_rep" value> == $0
          <input type="checkbox" name="EF-00110-
            StudentCoreFields.family_rep" value="1"
            data-validation="{\"maxlength\":\"4000\",\"type\"
              \"text\",\"key\":
```

# Challenge: Adding content with validation

```
<tr>
<td class="bold">Family ID</td>
<td>
<input type="text" id="familyidfield" name="[Students]Family_Ident" value="">
</td>
</tr>
```

```
<script>
$j(function(){

    $j("table:first").prepend('<tr><td class="bold">Family
ID</td><td><input type="text" id="familyidfield"
name="[Students]Family_Ident" value=""></td></tr>');

});
</script>
```

# Challenge: Adding content with validation

```
<input type="text" id="familyidfield" name="[Students]Family_Ident" value="">
```

```
<input type="text" id="familyidfield" name="UF-00104310611"  
value="12041" data-validation="{\"textMask\":\"Numeric 5  
digits\",\"maxlength\":\"30\",\"type\":\"text\",\"key\":  
\"students.family_ident\"}" data-key="students.family_ident" class=  
"psTextWidget" maxlength="30" data-textmask="Numeric 5 digits"
```

PowerSchool can add additional code beyond your control that can break javascript. One pattern as a workaround is:

- Build the content you want to add in a hidden element (such as a table).
- Use jQuery to move the element to your desired location
- Delete the hidden table

## admin/students/modifydata.familyid.content.footer.txt

```
<!-- create a hidden table with added rows -->

<table id="familyidhiddentable" style="display: none;">
<tr id="familyidrow">
<td class="bold">Family ID</td>
<td><input type="text" id="familyidfield" name="[Students]Family_Ident"
value=""></td>
</tr>
</table>

<!-- use jQuery to move the hidden row and remove the hidden table -->

<script>
$j(function() {
$j("table:first").prepend($j("#familyidrow"));
$j("#familyidhiddentable").remove();
});
</script>
```

# Challenge: Inserting new rows and zebra striping

Adair, Brandon 12 3 A AGHS1 Jones

Family ID	<input type="text"/>
Family rep	<input type="checkbox"/>
Graduation Requirement Set	High School Diploma
Home Room	Jones
Locker Combination	28--16--3

```
<div class="box-round">
  <table class="linkDescList"
    cellspacing="0"
    cellpadding="4" border="0">
    <colgroup>...</colgroup>
    <tbody>
      <tr id="familyidrow">...
      </tr>
      <tr bgcolor="#edf3fe">...
      </tr>
      <tr>...</tr>
      <tr bgcolor="#edf3fe">...
      </tr>
```

**Problem:** All the rows are now the same shade. Our new row shifted all the other rows down by one, but every other row was hard-coded to have a bgcolor attribute. This is an example of legacy styling that isn't completely removed from PowerSchool. The class="linkDescList" on the table should style every other row with the shading. So the solution is to remove the unnecessary bgcolor attributes and let css style the table.

Solution: Remove bgcolor attribute with removeAttr()

---

```
$j("table:first tr").removeAttr("bgcolor");
```



## admin/students/modifydata.familyid.content.footer.txt

```
<!-- create a hidden table with added rows -->

<table id="familyidhiddentable" style="display: none;">
<tr id="familyidrow">
<td class="bold">Family ID</td>
<td><input type="text" id="familyidfield" name="[Students]Family_Ident"
value=""></td>
</tr>
</table>

<!-- use jQuery to move the hidden row and remove the hidden table -->

<script>
$j(function() {
$j("table:first").prepend($j("#familyidrow"));
$j("#familyidhiddentable").remove();
$j("table:first tr").removeAttr("bgcolor");
});
</script>
```

# Modify Information

Adair, Brandon 12 3 A AGHS1 Jones

**Family ID**

12547



**Family rep**

☐

**Graduation Requirement Set**

High School Diploma



**Home Room**

Jones

**Locker Combination**

28--16--3

**Locker Number**

201

# More at psugcal.org on using family\_ident

---

For a more complete example that adds the additional features see the "Family Management" page at [psugcal.org](https://psugcal.org)

- Add validation to ensure Family\_Ident is a number
- Add a function to automatically select the next available FamilyID to assign to a new family
- Use sql reports to identify which siblings to mark as the "family rep"

Consider adding family\_ident to list of fields to copy between siblings in "Family Management" so that the field is kept in sync between siblings

**Add "Reset Class Counts" to Special Functions**

# Resetting Class Counts in PowerSchool



Welcome, 51

School: Apple Grove High School

Start Page > System Administrator > Special Operations

## Functions

Attendance  
Daily Bulletin  
Enrollment Summary  
Master Schedule  
Dashboard  
Special Functions  
Teacher Schedules

## Reports

System Reports  
ReportWorks  
sqlReports

## People

Student Search  
Staff Search  
Contact Search  
Enroll New Student

## Special Operations

Option	Value
Operation	Rebuild Virtual Table Views Recalculate attendance Recalculate Consecutive Absences Notification Recalculate fee balances Recalculate lunch balances Recover from mass transfer out Remove teachers with no sections
Param 1	
Param 2	
Code	Reset Class Counts Reset Section Meetings Run duplicate ID count only (p1=tablename, p2=usually date, code=pwd) Run duplicate ID fix (p1=tablename, p2=usually date, code=pwd) Select Students with Overlapping CC Enrollments Set schedule term length field Set Special Program Enrollment ID State Reports Setups TN - Create Daily Attendance From Queued Meeting Attendance Perform heap dump on current node Clear Spring Caches Reset Marshalling Service Rebuild ER/View Views



**Problem:** Class counts often need updating, requiring an admin with access to Special Operations to run "Reset Class Counts"

# Add Reset Class Counts to Special Functions

---

**Goal:** Add a "Reset Class Counts" to the Special Functions screen to allow your users to fix class counts on their own

**Method:** Upload a special page limited to just the "Reset Class Counts" special operation and then add a link to it in Special Functions

# Step 1: Upload the special page

## PowerSource Exchange

[Browse Files](#)[RSS Feeds](#)[Add a File](#)[My Files](#)[Help](#)

ID: 449

[➤ Back to Search Results](#)

### Reset Class Counts - link from Special Functions

#### Description:

For PowerSchool 7: a custom page containing ONLY the Reset Class Counts function from Special Operations, with text of menu addition to allow access from the main Special Functions menu.

#### Installation:

Place the page restclasscount.html in the \webroot\admin directory (or import to via Custom Page Management).

[Download](#)

+22  
votes

−

+

#### Screenshots

[Click To Enlarge](#)

#### Additional Details

<https://support.powerschool.com/exchange/view.action?download.id=449>

Upload via CPM: `admin/resetclasscount.html`

## Reset Class Counts

Option	Value
Operation	✓ Reset Class Counts

Submit

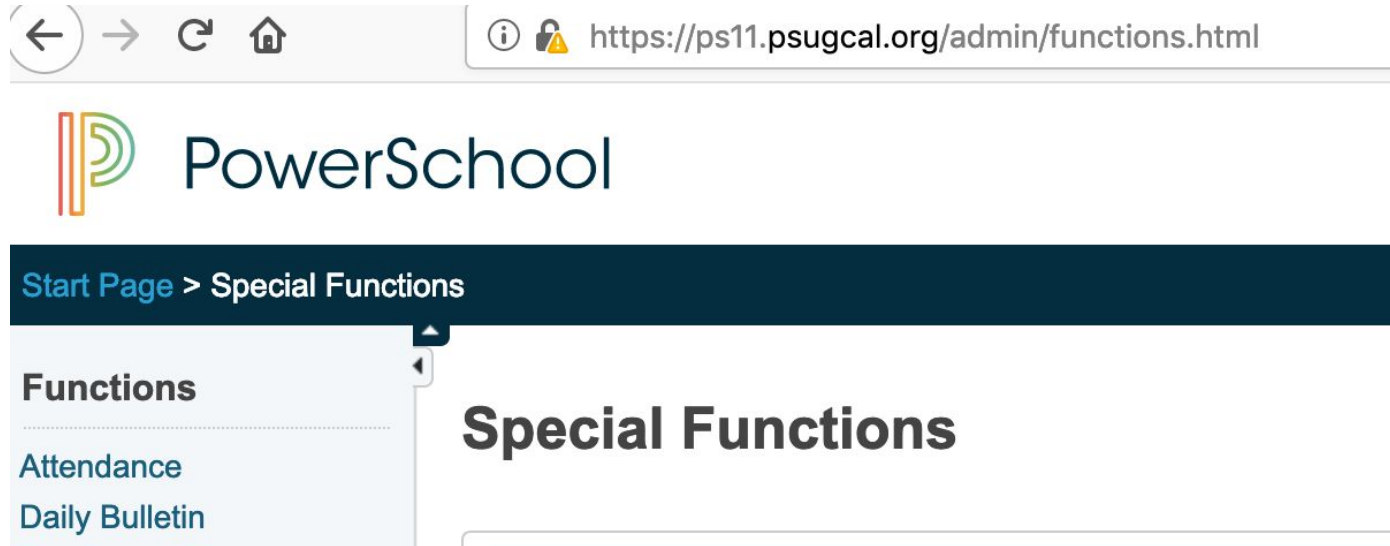


# Add Reset Class Counts to Special Functions

---

**Stock Page:** `admin/functions.html`

**Fragment:** `admin/functions.classcounts.content.footer.txt`



# Add Reset Class Counts to Special Functions

**Selector:** `<tr>` with link `".../studentattachments.html"`

**Action:** before

**jQuery:**

```
$j("[href^='/admin/students/studentattachments.html']").closest("tr").before(___);
```

Importing & Exporting	Transfers data into and out of PowerSchool.
Incident Management	Create, update, and delete Incidents.
Interfaces to other systems	Links to other systems which can be used with PowerSchool.
Search Attachments	Searches Student Attachments
Search By GPA	Searches students by GPA.
Search By Grades/Attendance	Searches currently selected students by grades, citizenship, attendance, etc.

```
<tr class="oddRow"> ... </tr>
<tr class="evenRow"> ... </tr>
<tr class="oddRow"> ... </tr>
<tr class="evenRow">
  <td>
    <a href="/admin/students/studentattachments.html">
      Search Attachments</a>
    </td>
    <td>Searches Student Attachments<
  </tr>
<tr class="oddRow"> ... </tr>
```

```
<script>
$(function() {
    // First build up the new html row into an 'html' variable
    var html = '<tr class="evenRow">';
    html += '<td><a href="/admin/resetclasscount.html">';
    html += 'Reset Class Counts</a></td>';
    html += '<td>Updates section student enrollment counts.</td>';
    html += '</tr>';

    // now insert the table row before the 'Search Attachments' row
    $j("[href^='/admin/students/studentattachments.html']").closest("tr")
    .before(html);

    // Fix zebra striping - 1st change all oddRow classes to evenRow
    // we do this make all non-header rows the same class
    $j('tr.oddRow').attr('class', 'evenRow');

    //now reassign oddRow to the correct odd rows
    $j('tr.evenRow:odd').attr('class', 'oddRow');
});
</script>
```

## Special Functions

Function	Description
Assign IDs & Passwords	Automatically assigns IDs and passwords to students.
Attendance Functions	
Current Users	
Daily Bulletin Setup	
Enroll New Student	
Fee Functions	
Group Functions	
Health Management	Access and view
Importing & Exporting	Transfer data to and from PowerSchool.
Incident Management	Create, update, and delete Incidents.
Interfaces to other systems	Links to other systems which can be used with PowerSchool.
Reset Class Counts	Updates section student enrollment counts.
Search Attachments	Searches Student Attachments
Search By GPA	Searches students by GPA.
Search By Grades/Attendance	Searches currently selected students by grades, citizenship, attendance, etc.
Search For Perfect Attendance	Searches currently selected students for perfect attendance.
Search Log Entries	Searches student log entries.
Special Program Enrollment	Display and select students currently enrolled in special programs.

**Interfaces to other systems** Links to other systems which can be used with PowerSchool.

**Reset Class Counts** Updates section student enrollment counts.

**Search Attachments** Searches Student Attachments

# Adding links to Student Left Navigation

**"Enter Attendance Prev 5"**

`more2.html`

Transportation

## Academics

Attendance

Enter Attendance

Cumulative Info

Enter Attendance always  
displays the current week.

	Monday 03/05/2018 Set All	Tuesday 03/06/2018 Set All	Wednesday 03/07/2018 Set All	Thursday 03/08/2018 Set All	Friday 03/09/2018 Set All
Meeting Time	360/360 mins	360/360 mins	360/360 mins	360/360 mins	360/360 mins
	Speech Lura, Colleen R	Current Affairs Manston, Greg T	Speech Lura, Colleen R	Current Affairs Manston, Greg T	Speech Lura, Colleen R
09:00 AM	115 08:30 AM - 10:00 AM <input type="text"/> 1(A)	123 08:30 AM - 10:00 AM <input type="text"/> 1(B)	115 08:30 AM - 10:00 AM <input type="text"/> 1(A)	123 08:30 AM - 10:00 AM <input type="text"/> 1(B)	115 08:30 AM - 10:00 AM <input type="text"/> 1(A)
10:00 AM					

Transportation

## Academics

Attendance

Enter Attendance

Enter Attendance Prev 5  
Cumulative Info

Graduation

Graduation

Graduation

It would sometimes be more helpful to see the previous 5 days.

	Thursday 03/01/2018 Set All	Friday 03/02/2018 Set All	Saturday 03/03/2018 Set All	Sunday 03/04/2018 Set All	Monday 03/05/2018 Set All
Meeting Time	360/360 mins	360/360 mins	0/0 mins	0/0 mins	360/360 mins
	Current Affairs Manston, Greg T	Speech Lura, Colleen R			Speech Lura, Colleen R
09:00 AM	123 08:30 AM - 10:00 AM <input type="text"/> 1(B)	115 08:30 AM - 10:00 AM <input type="text"/> 1(A)			115 08:30 AM - 10:00 AM <input type="text"/> 1(A)
10:00 AM					

# Add "Enter Attendance Prev 5" Link to Student Left Nav

---

**Goal:** Add a link like the "Enter Attendance" link, except that it displays the last 5 days instead of the current week. This is more useful especially at the beginning of the week when the attendance secretary is still adjusting the previous week.

**Method:** Add a specially formatted link just after the "Enter Attendance" link.



# Add "Enter Attendance Prev 5" Link to Student Left Nav

---

**Stock Page:** admin/students/more2.html

**Fragment:** admin/students/more2.attprev5.**leftnav**.footer.txt

Transportation

## Academics

---

Attendance

Enter Attendance

Cumulative Info

Graduation Plan Progress

Graduation Plan Selection

Graduation Progress

https://yourserverURL/admin/attendance/record/week/meeting.html?frn=0012

&startdate=04/09/2018&enddate=04/13/2018

```
&ATT_RecordMode=ATT_ModeMeeting
```

[illegible][illegible][illegible]

# Special Link for Previous 5 days

---

```
<a  
href="/admin/attendance/record/week/meeting.html  
?frn=~(studentfrn)&startdate=~[date;-5]  
&enddate=~[date;-1]  
&ATT_RecordMode=ATT_ModeMeeting  
&setUserScreen=1">Enter Attendance Prev5</a>
```

# Add "Enter Attendance Prev 5" Link to Student Left Nav

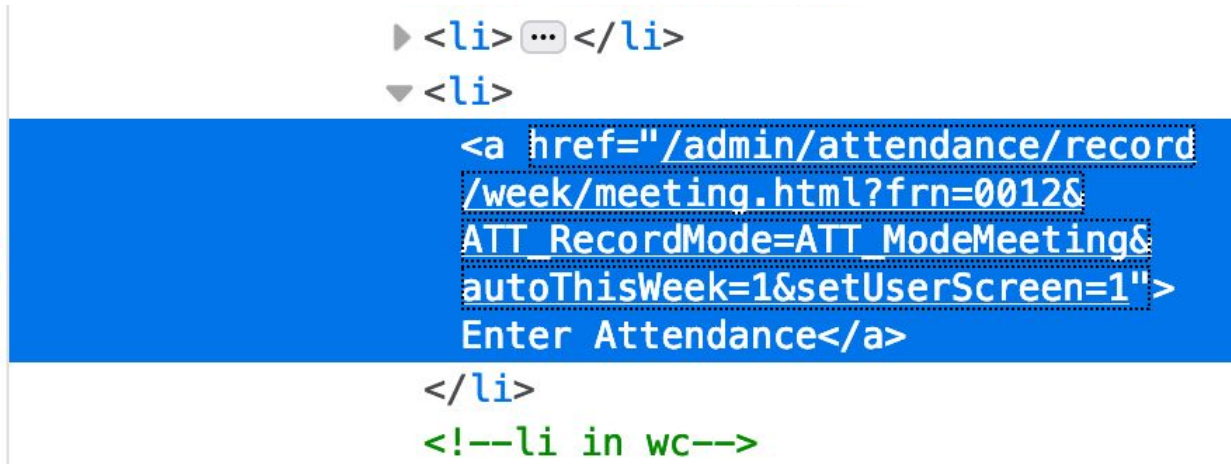
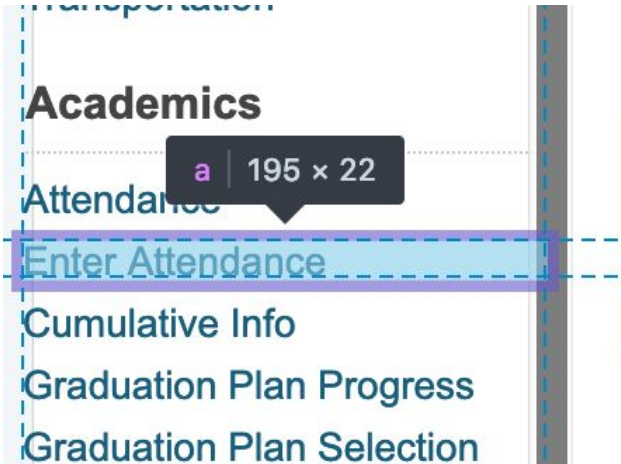
---

**Selector:** `<li>` containing the "Enter Attendance" link

**Action:** after

**jQuery:**

```
$j("a[href^='/admin/attendance/record/week/meeting.html']").closest("li").after(__);
```



## admin/students/more2.attprev5.leftnav.footer.txt

```
<script>
$(function() {
    ~[if.~(studentscreenaccess;attendance.html)=1]
    /* "Enter Attendance Prev5" Link */
    var html = '';
    html += '<li>';
    html += '<a href="/admin/attendance/record/week/meeting.html';
    html += '?frn=~(studentfrn)';
    html += '&startdate=~[date;-5]';
    html += '&enddate=~[date;-1]';
    html += '&ATT_RecordMode=ATT_ModeMeeting&setUserScreen=1">';
    html += 'Enter Attendance Prev5';
    html += '</a></li>';
    $j("a[href^='/admin/attendance/record/week/meeting.html']").close
    st("li").after(html);
    [/if]

});
</script>
```

# Academics

Attendance

Enter Attendance

Enter Attendance Prev5

Cumulative In

Graduation Pl

Graduation Pl

Graduation Pl

Historical Gra

Honor Roll

**Tip:** Experiment with different date math options to meet the needs of your attendance secretary.

&startdate=~[**date**;-5]

&enddate=~[**date**;-1]

	Thursday 03/01/2018 Set All	Friday 03/02/2018 Set All	Saturday 03/03/2018 Set All	Sunday 03/04/2018 Set All	Monday 03/05/2018 Set All
Meeting Time	360/360 mins	360/360 mins	0/0 mins	0/0 mins	360/360 mins
	Current Affairs Manston, Greg T	Speech Lura, Colleen R			Speech Lura, Colleen R
09:00 AM	123 08:30 AM - 10:00 AM <input type="text"/> 1(B)	115 08:30 AM - 10:00 AM <input type="text"/> 1(A)			115 08:30 AM - 10:00 AM <input type="text"/> 1(A)
10:00 AM					

# Append and Sort

Advanced method for inserting links alphabetically

Credit: "Custom Alerts"  
plugin by Adam Larsen

<https://mba-link.com/customizations>

# Append and Sort

You can't always be certain exactly which links will be available to a given user, due to security implementations.

A safer approach is to append your link to the bottom of the section and re-sort the list alphabetically.

Custom Alerts

## Information

Access Accounts

Addresses

Attachments

Contacts

Custom Screens

Demographics

Emergency/Medical

Family

Health

Modify Info

Other Information

Student Email

Parents

Photo

State/Province - MS

Transportation





# Append and Sort

---

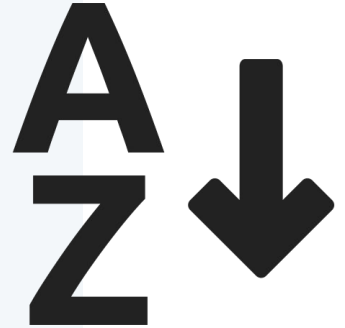
**Goal:** Add a link to the Information section of the student left navigation.

**Method:** Append a new link to the bottom of the section and re-sort the section alphabetically

Custom Alerts

## Information

Access Accounts  
Addresses  
Attachments  
Contacts  
Custom Screens  
Demographics  
Emergency/Medical  
Family  
Health  
Modify Info  
Other Information  
Student Email  
Parents  
Photo  
State/Province - MS  
Transportation



# Append and Sort

— — —

## **Stock Page:**

admin/students/more2.html

## **Fragment:**

admin/students/more2.aet\_customalerts.leftnav.footer.txt

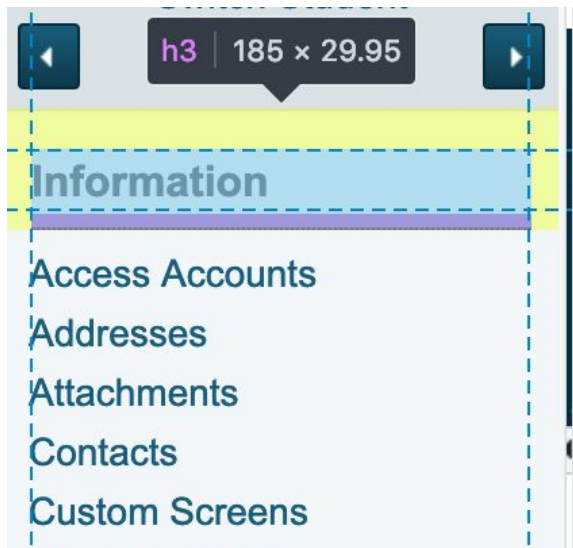
# Append and Sort

---

**Selector:** `<ul>` with the `id="std_information"`

**Action:** append

**jQuery:** `$j("ul#std_information").append(___);`



```
$j("ul#std_information").append("<li><a  
href='aet_customalerts.html?frn=~(frn)'  
Custom Alerts</a></li>");
```

## Information

Access Accounts

Addresses

Attachments

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Modify Info

Other Information

Student Email

Parents

Photo

State/Province - MS

Transportation

Custom Alerts



The sort functions evaluates all the items in the array, sending two items at a time to the compare function.

- negative sorts *a* before *b*
- positive sorts *b* before *a*
- 0 means no change to the sort

```
$j("ul#std_information li").sort(function(a, b)
{
    if($j(a).text() < $j(b).text()) return -1;
    if($j(a).text() > $j(b).text()) return 1;
    return 0;
}
).appendTo("ul#std_information");
```

The jQuery text() method returns the text of the element without any HTML markup

## Information

Access Accounts

Addresses

Attachments

Contacts

Custom Alerts

Custom Screens

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Emergency/Medical

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Other Information

Parents

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State/Province - MS

Student Email

Transportation

JavaScript sort function

[https://www.w3schools.com/js/js\\_array\\_sort.asp](https://www.w3schools.com/js/js_array_sort.asp)

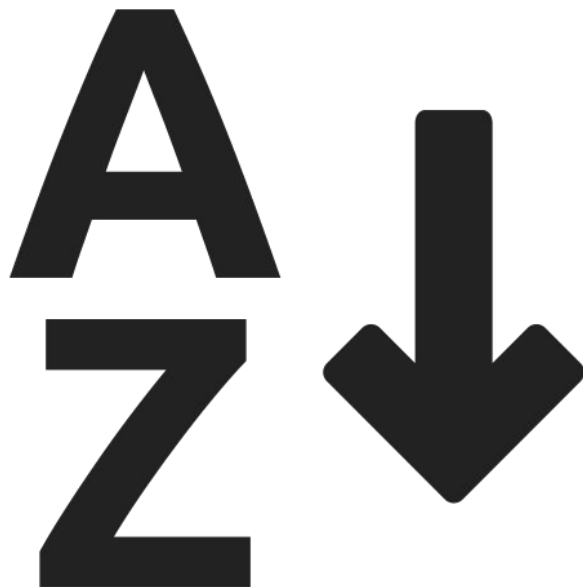
admin/students/more2.aet\_customalerts.leftnav.footer.txt

```
<script>
$(document).ready(function() {

    $( "ul#std_information" ).append("<li><a
href='aet_customalerts.html?frn=~(frn)'">Custom Alerts</a></li>");

    $( "ul#std_information li" ).sort(function(a, b)
    {
        if($(a).text() < $(b).text()) return -1;
        if($(a).text() > $(b).text()) return 1;
        return 0;
    }
    ).appendTo("ul#std_information");

});
</script>
```



## Information

---

[Access Accounts](#)

[Addresses](#)

[Attachments](#)

[Contacts](#)

[Custom Alerts](#)

[Custom Screens](#)

[Demographics](#)

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