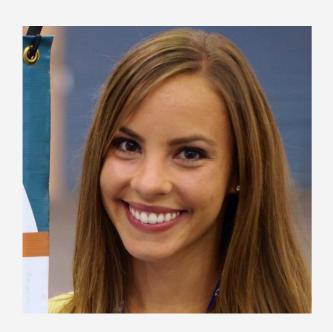


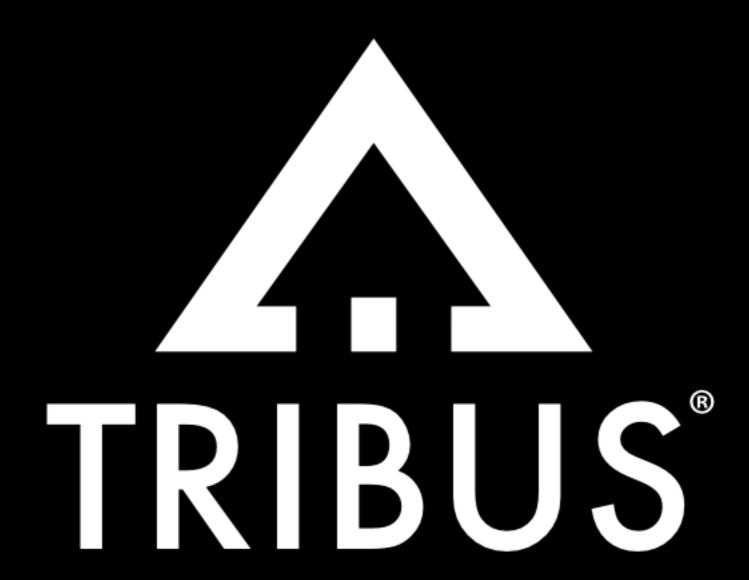
# How TRIBUS Migrated to the RESO Data Dictionary



# KATIE RAGUSA TRIBUS VP of Product



JOSH DAVIS
TRIBUS Senior Developer





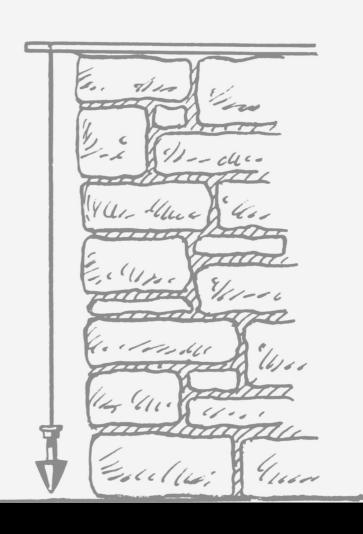
#### WHAT WE'LL COVER

- 1. How standards impact our lives
- 2. TRIBUS' migration process
- 3. Our standards wish list



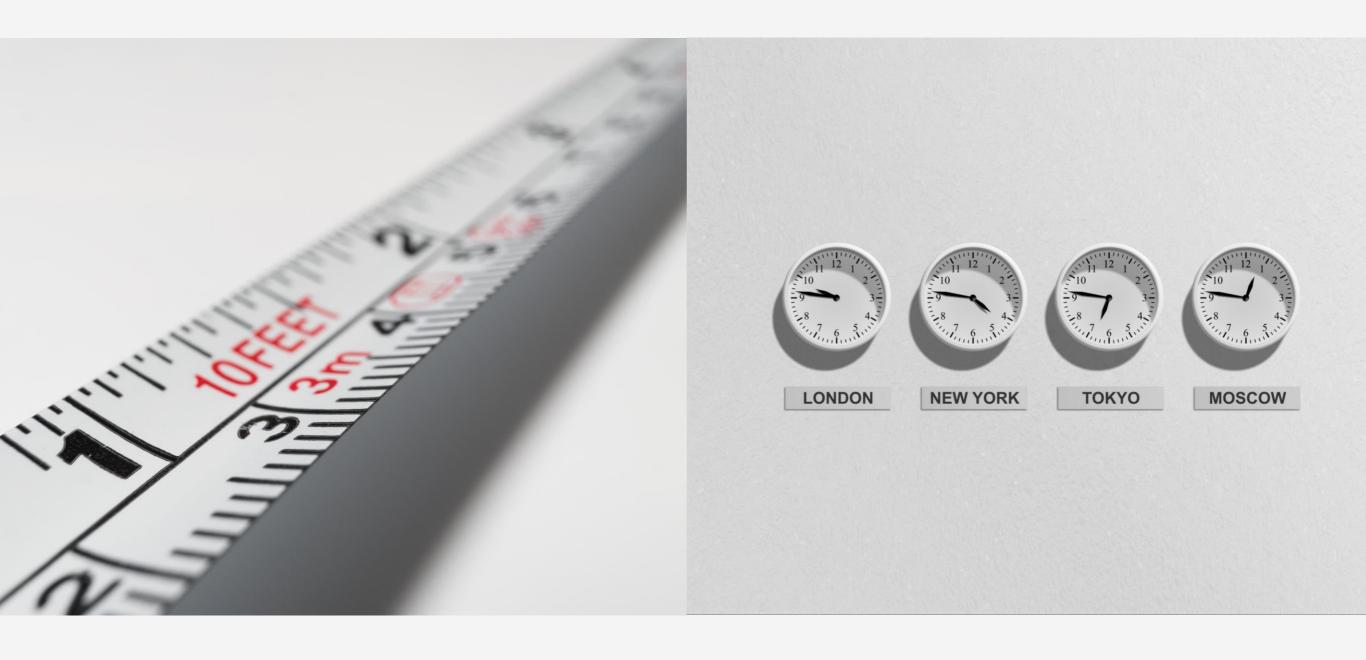
#### WHY ESTABLISH STANDARDS?

Everyone may not agree with every decision, but at least everyone knows the rules to play by





#### STANDARDS IN EVERYDAY LIFE

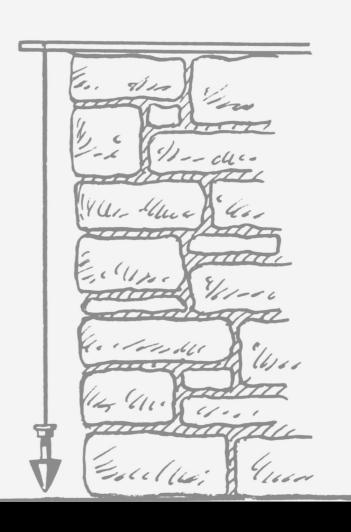






#### CODE EXAMPLES

- Tabs vs. Spaces
- "House Styles"









```
i=i.er this i=i.$el
                                                                                                                    $ ore t in ( .act
 f(i.hasClass("active"))
("slid",function(){var t=e(a.$indicators.children()[a.getActiveIndex()]);t&&t.addClass("active")}));if(e.support.trans
.$element.hasClass("slide")){this.$element.trigger(f);if(f.isDefaultPrevented())return;i.addClass(t),i[0].offsetWidth,
,i.addClass(o),this.$element.one(e.support.transition.end,function(){i.removeClass([t,o].join(" ")).addClass("active")
.removeClass(["active",o].join(" ")),a.sliding=!1,setTimeout(function(){a.$element.trigger("slid")},0)})}else{this.$el
(f);if(f.isDefaultPrevented())return;r.removeClass("active"),i.addClass("active"),this.sliding=!1,this.$element.trigge
}return s&&this.cycle(),this}};var n=e.fn.carousel;e.fn.carousel=function(n){return this.each(function(){var r=e(this)}
("carousel"), s=e.extend({},e.fn.carousel.defaults, typeof n=="object"&&n), o=typeof n=="string"?n:s.slide;i||r.data("carousel"), s=e.extend({},e.fn.carousel.defaults, typeof n=="object"&&n), o=typeof n=="string"?n:s.slide;i||r.data("carousel"), s=e.extend({},e.fn.carousel.defaults, typeof n=="object"), s=e.extend({},e.fn.carousel.
t(this,s)), typeof n=="number"?i.to(n):o?i[o]():s.interval&&i.pause().cycle()})},e.fn.carousel.defaults=<math>\{interval:5e3, \nearrow
pause:"hover"},e.fn.carousel.Constructor=t,e.fn.carousel.noConflict=function(){return e.fn.carousel=n,this},e(document
.carousel.data-api","[data-slide], [data-slide-to]",function(t){var n=e(this),r,i=e(n.attr("data-target")||(r=n.attr("
replace(/.*(?=#[^\s]+$)/,"")),s=e.extend({},i.data(),n.data()),o;i.carousel(s),(o=n.attr("data-slide-to"))&&i.data("cata-slide-to"))
.pause().to(o).cycle(),t.preventDefault()})}(window.jQuery),!function(e){"use strict";var t=function(t,n){this.$elemen
. options=e.extend({},e.fn.collapse.defaults,n),this.options.parent&&(this.$parent=e(this.options.parent)),this.options
.toggle()};t.prototype={constructor:t,dimension:function(){var e=this.$element.hasClass("width");return e?"width":"heightering.
show:function(){var t,n,r,i;if(this.transitioning||this.$element.hasClass("in"))return;t=this.dimension(),n=e.camelCas
```

t].join("-")),r=this.\$parent&&this.\$parent.find("> .accordion-group > .in");if(r&&r.length){i=r.data("collapse");if(i&d .transitioning)return;r.collapse("hide"),i||r.data("collapse",null)}this.\$element[t](0),this.transition("addClass",e.E

.hasClass("in"))return;t=this.dimension(),this.reset(this.\$element[t]()),this.transition("removeClass",e.Event("hide")
this.\$element[t](0)},reset:function(e){var t=this.dimension();return this.\$element.removeClass("collapse")[t](e||"auto .offsetWidth,this.\$element[e!==null?"addClass":"removeClass"]("collapse"),this},transition:function(t,n,r){var i=this,s {n.type=="show"&&i.reset(),i.transitioning=0,i.\$element.trigger(r)};this.\$element.trigger(n);if(n.isDefaultPrevented()

Delivering Custom Platforms to Help Brokerages Best Engage With Their Clients, Agents and Staff.

"shown"),e.support.transition&&this.\$element[t](this.\$element[0][n]) $\}$ ,hide:function() $\{$ var t;if(this.transitioning

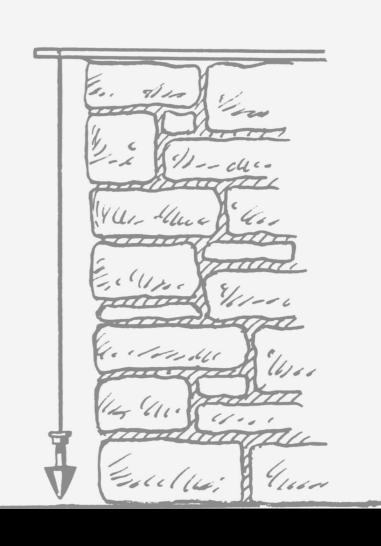
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("input")?"val":"html";e+="Text",r.resetText||n.data("resetText",n[i]()),n[i](r[e]||this.options[e]),setTimeout(function) {e=="loadingText"?n.addClass(t).attr(t,t):n.removeClass(t).removeAttr(t)},0)},t.prototype.toggle=function(){var e=this .closest('[data-toggle="buttons-radio"]');e&&e.find(".active").removeClass("active"),this.\$element.toggleClass("active n=e.fn.button;e.fn.button=function(n){return this.each(function(){var r=e(this),i=r.data("button"),s=typeof n=="object" .data("button",i=new t(this,s)),n=="toggle"?i.toggle():n&&i.setState(n)})},e.fn.button.defaults={loadingText:"loading. .button.Constructor=t,e.fn.button.noConflict=function(){return e.fn.button=n,this},e(document).on("click.button.data-a "[data-toggle^=button]",function(t){var n=e(t.target);n.hasClass("btn")||(n=n.closest(".btn")),n.button("toggle")})}(w ,!function(e){"use strict";var t=function(t,n){this.\$element=e(t),this.\$indicators=this.\$element.find(".carousel-indica .options=n,this.options.pause=="hover"&&this.\$element.on("mouseenter",e.proxy(this.pause,this)).on("mouseleave",e.proxy this)); $t.prototype=\{cycle:function(t)\{return t||(this.paused=!1),this.interval&&clearInterval(this.interval),this.optices$ . interval&&!this.paused&&(this.interval=setInterval(e.proxy(this.next,this),this.options.interval)),this},getActiveInd {return this.\$active=this.\$element.find(".item.active"),this.\$items=this.\$active.parent().children(),this.\$items.index .\$active)},to:function(t){var n=this.getActiveIndex(),r=this;if(t>this.\$items.length-1||t<0)return;return this.sliding .\$element.one("slid",function(){r.to(t)}):n==t?this.pause().cycle():this.slide(t>n?"next":"prev",e(this.\$items[t]))},pa (t) $\{\text{return t} \mid | (\text{this.paused=!0}), \text{this.$element.find}(".next, .prev").length&&e.support.transition.end&&(this.$element.trigon)$ .support.transition.end),this.cycle(!0)),clearInterval(this.interval),this.interval=null,this},next:function(){if(this

#### BOTTOM LINE

Rules aren't always fun to follow, but they're good at establishing order —

which is necessary in our industry.

















**SHOWING** 

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→ SHARE

NORTH PALM BEACH, FL 33408

**\$49,500,000** 23,176 SQFT

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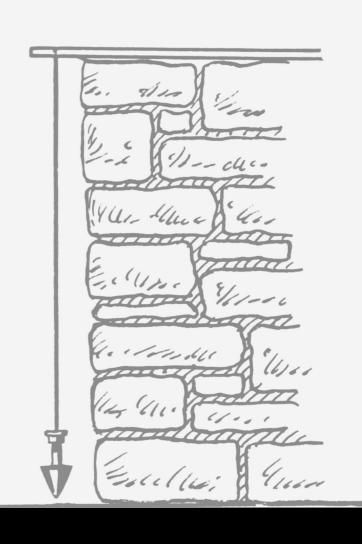
HOW DO YOU LIKE THIS PROPERTY? 公公公公公

Seclu

FOR VENDORS/DEVELOPERS

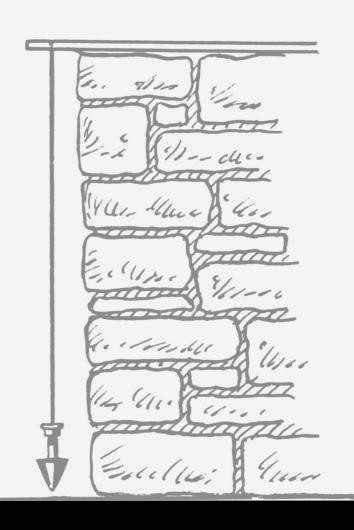
"Convention over configuration"

- You're not a beautiful and unique snowflake
- Free from deliberation over recurrent & insignificant choices
   (e.g. names of database columns)
- Free to depend on standard assumptions and grow deeper abstractions



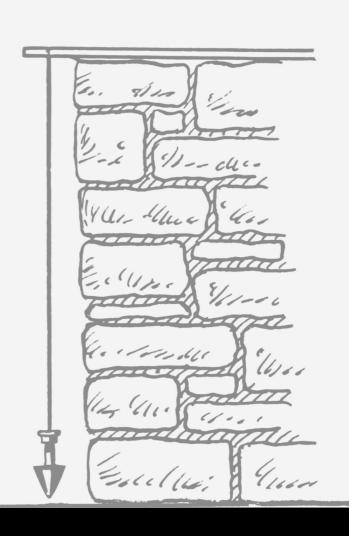
FOR VENDORS/DEVELOPERS

# Much easier to co-mingle data from multiple MLSs



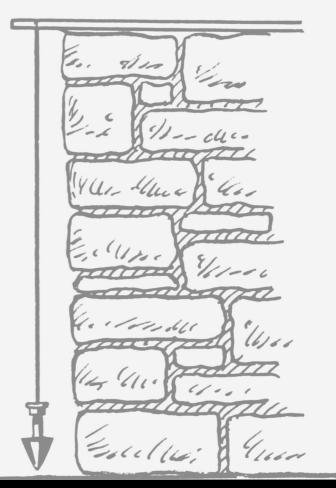
### POTENTIAL PROBLEMS

- Consistency
- How standards are applied
- Legacy issues



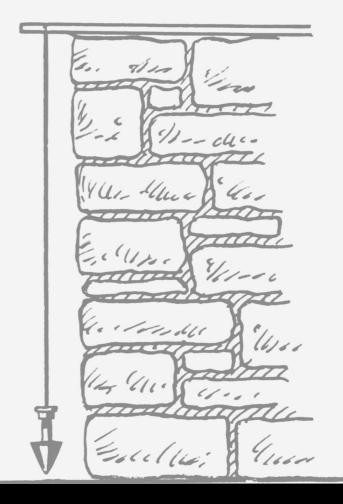
FOR BROKERS

The vendor can get brokers up and running much faster



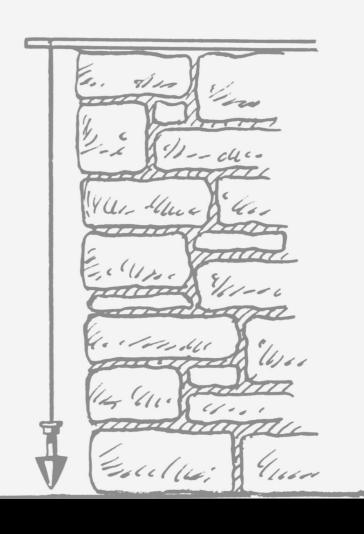
FOR BROKERS

The vendor can cut down on post mapping confusion & client questions



FOR BROKERS

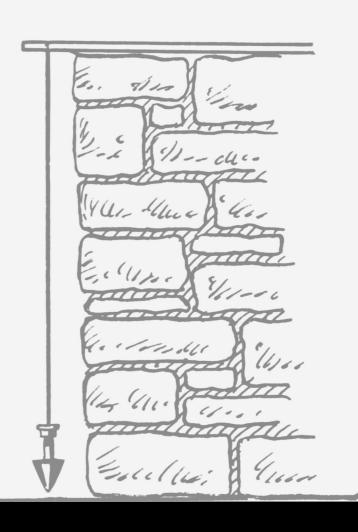
The vendor can design better websites when we know what types of formatted data to expect



#### WHEN & HOW TO APPLY STANDARDS

First, consider developer UX

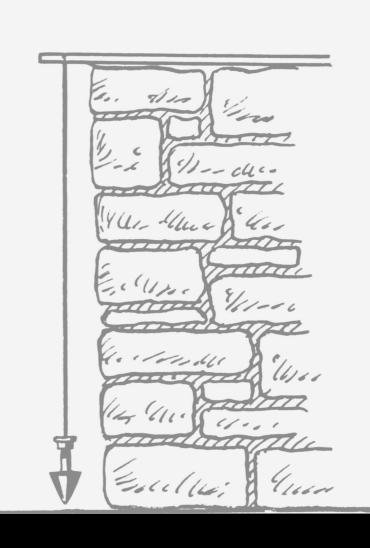
& business goals



#### HOW VENDORS BUILD AN IDX PLATFORM

IF THE DATA DICTIONARY WERE NOT AVAILABLE

- 1. Find the business use case
- 2. Figure out the tech implications
- 3. Make decisions to form your own unique spec



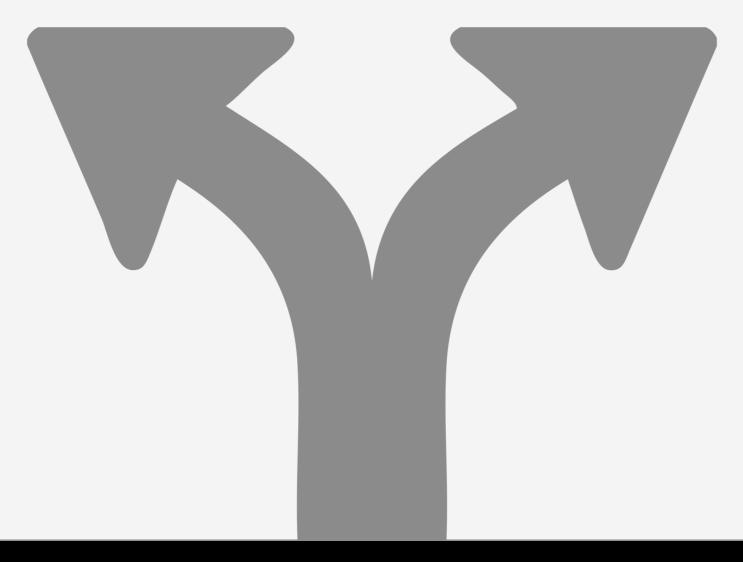




# TRIBUS' MIGRATION PROCESS TO THE RESO DATA DICTIONARY

Step 1:

Decide between RETS and Web API



## PROJECT POST MORTEM

RETS PROCESS: BEFORE



#### PROJECT POST MORTEM

RETS PROCESS: AFTER



#### TIPS FOR OTHER VENDORS

Stay up to date on which MLSs are certified

Certification level

RETS vs. Web API options

 Consider how you'll test, if you're converting from RETS to Data Dictionary

Standard:

IDX approval paperwork



Standard:

Display requirements

(and a standard notification process when they change)



#### Standard:

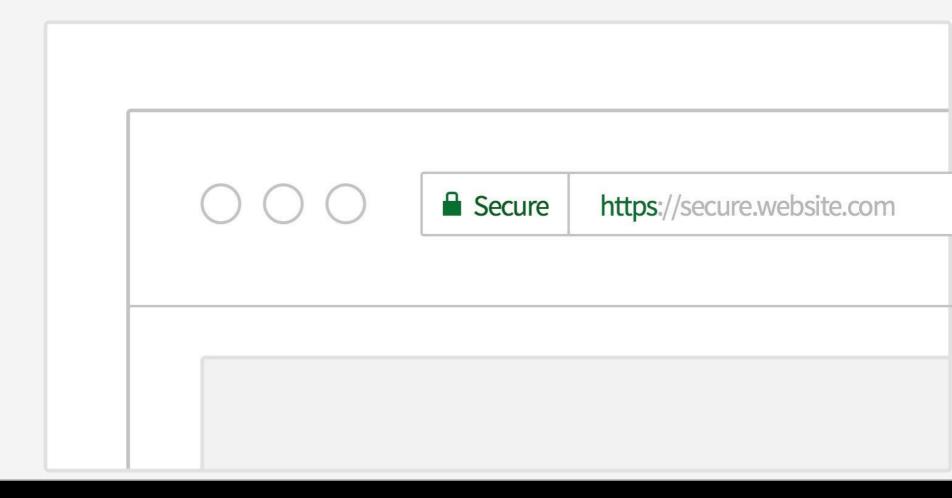
#### More data classes

- Agents
- Offices
- Open Houses



Standard:

All hosted media using SSL



### SESSION RECAP

- 1. How standards impact our lives
- 2. TRIBUS' migration process
- 3. Our standards wish list

### THANK YOU

