Fundamentals of HTML5 Forms API

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Outline

- Introduction
- What's New in HTML5 Forms?
 - New tags & types
 - Demo: New tags
 - Demo: Browser support
- How is validation supported?
 - Validation mechanics
 - Demo: Using CSS3 pseudo classes
 - Review built-in validation rules
 - Demo: Showing fine-grained validation messages
 - Custom validation rules
 - Demo: Implement custom validation rules



New Input Types

color

month

datalist

number

week

url

date

range

datetime

search

datetime-local

tel

email

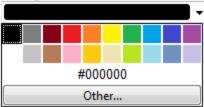
time



Color



Background Color



Datalist



T-Shirt Color

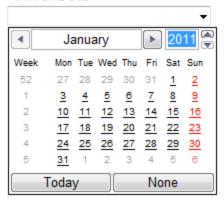
Black	
Blue	
Red	
Green	



Date



Arrival Date

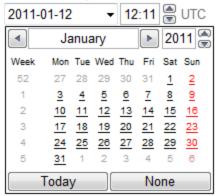




Date/Time



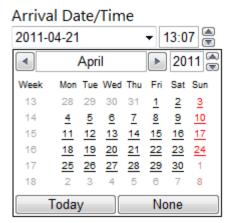
Arrival Date/Time





Date/Time Local







Email, URL & Telephone



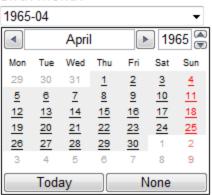
Name:
Craig
E-mail:
craig@craigshoemaker.net
URL:
http://craigshoemaker.net
Telephone
555-555-5555



Month



Birth Month

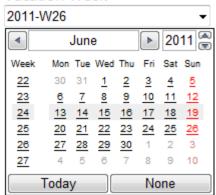




Week



Vacation Week





Range





Numeric



Number of Years in Development:





Time



Arrival Time 09:30



Search

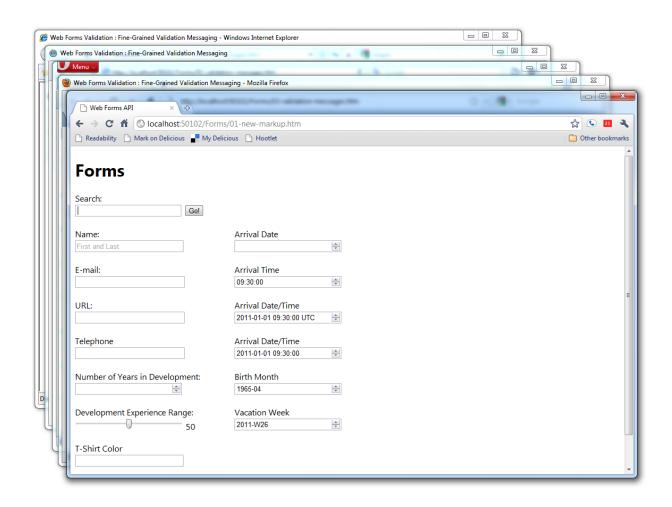




Demo



Browser Support





When can I use these tags?



When can I use these tags?

Today!



Text Soft Keyboard





Number Soft Keyboard





URL Soft Keyboard





Email Soft Keyboard





Forms Validation

Change Email Address		
Username:	The username is required.	
Email:	An email address is required.	
Change Validate		



valueMissing

typeMismatch

patternMismatch

tooLong

rangeUnderflow and rangeOverflow

stepMismatch

valid



valueMissing

Returns true if a required element is empty.

typeMismatch

patternMismatch

tooLong

rangeUnderflow and rangeOverflow

stepMismatch

valid



valueMissing

typeMismatch

Applies to all the new type attributes. For example, if an email value is incorrect, this attribute returns true.

patternMismatch

tooLong

rangeUnderflow and rangeOverflow

stepMismatch

valid



valueMissing

typeMismatch

patternMismatch

Returns true when an element contains the pattern attribute and doesn't conform to the regular expression.

tooLong

rangeUnderflow and rangeOverflow

stepMismatch

valid



valueMissing

typeMismatch

patternMismatch

tooLong

Returns true when any element surpasses its maxlength property.

rangeUnderflow and rangeOverflow

stepMismatch

valid



valueMissing typeMismatch patternMismatch tooLong rangeUnderflow and rangeOverflow Returns true if an element's min or max attributes are above or below the specified values. stepMismatch valid



valueMissing

typeMismatch

patternMismatch

tooLong

rangeUnderflow and rangeOverflow

stepMismatch

Returns true when an element with the step attribute doesn't conform to the required step value.

valid



valueMissing

typeMismatch

patternMismatch

tooLong

rangeUnderflow and rangeOverflow

stepMismatch

valid

Returns true if all of the rules listed above do not return true.



Demo



Summary

- HTML5 features many new input types and tags
- Browser support is sporadic (as of early 2011)
- Use today is acceptable & encouraged
- Validation is supported and provides many options



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