

Modern Webapplication

Development

with



Apache Struts 2

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Struuts ?

Struuts ?

Struts ?

WTF ?



The framework our
forefathers used to use...?

no - it's Struts





it's not the old

crap

It's shiny
new!



A young man with dark hair and glasses is looking directly at the camera with a wide-eyed, questioning expression. He has a blue pen balanced horizontally in his mouth. He is holding a spiral-bound notebook with both hands, and another blue pen is tucked behind his ear. The background is a plain, light-colored wall.

So what?



the Common stuff

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A white megaphone with a red handle and a green strap is shown against a white background. The word "Request" is written in white text on the side of the megaphone.

Request

A black and white photograph of a megaphone. The megaphone is oriented vertically, with the horn pointing downwards. The word "Response" is printed in a white, sans-serif font on the side of the horn. The megaphone has a dark handle and a dark, rounded top section. A dark strap is attached to the handle. The background is a plain, light-colored surface.

Response



Model

A scenic view of a rocky coastline. The foreground shows a brown, layered rock formation with some green vegetation. The middle ground features a steep, layered cliff face overlooking a blue ocean with white-capped waves. A small, dark rock formation is visible in the distance on the left. The sky is a clear, light blue.

View

Controller





Front Controller

Unique features



Action based



the **Action** is the
Controller ...





... **and** the “nearest”
part of the **Model**,
represented by ...


... a Stack



the Value
Stack



actually the
Front Controller
is not monolithic...

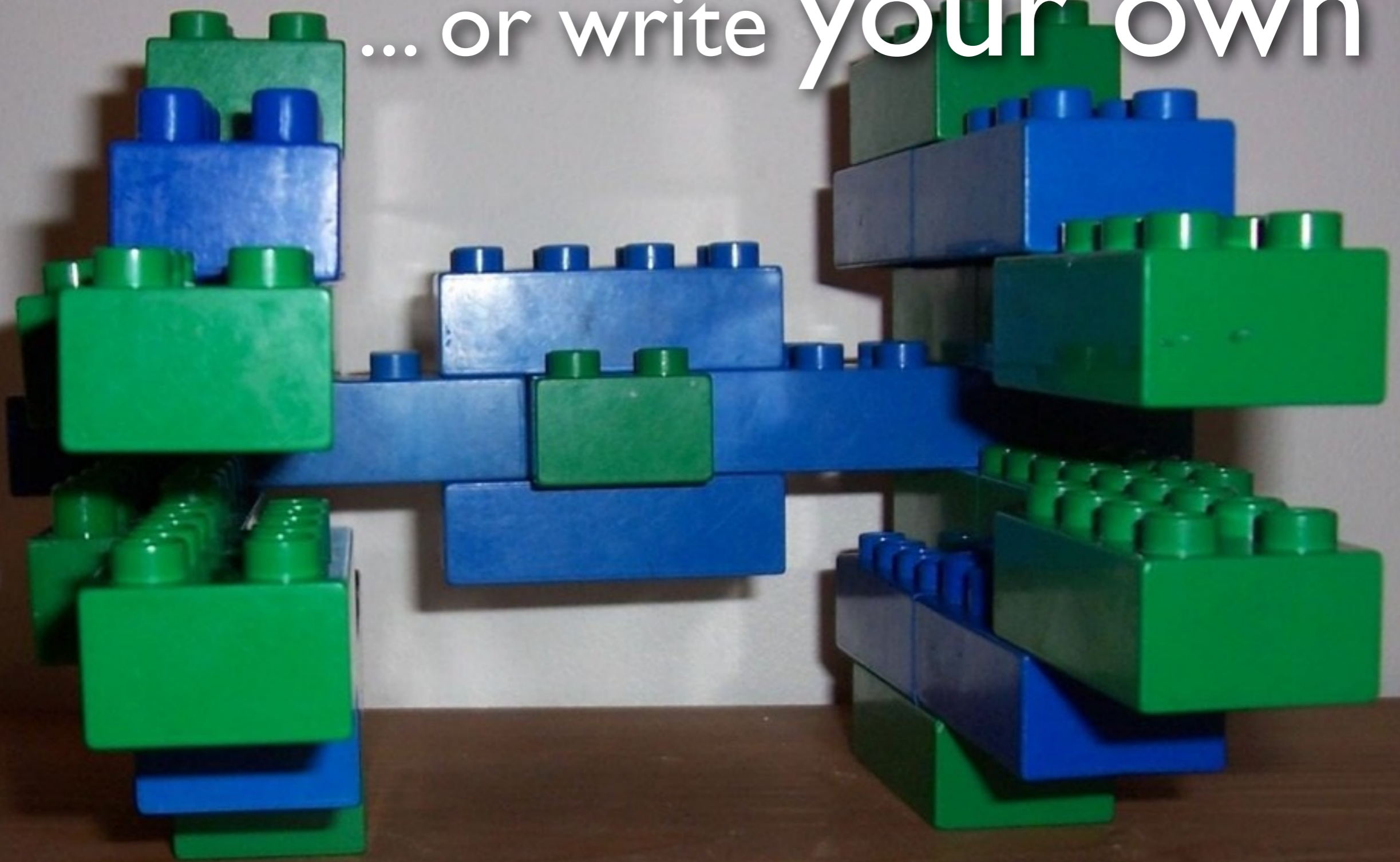


... it's a set of
customizable
stacks of
Interceptors




use pre-packaged
Interceptors ...

... or write **your own**



A scenic view of a rocky coastline. The foreground shows a brown, layered rock cliffside with some green vegetation. The middle ground features a deep blue ocean with white-capped waves crashing against the base of the cliff. In the distance, a small, dark rock formation is visible in the water. The sky is a clear, light blue.

Views are not
really Views ...

An aerial photograph of a coastline, showing a blue body of water on the left and a brownish landmass on the right, is displayed on a tablet screen. The tablet is set against a warm, golden-yellow background. The text is overlaid on the lower right portion of the screen.

... they are active,
versatile and semantic

Results



flexible and clean
architecture



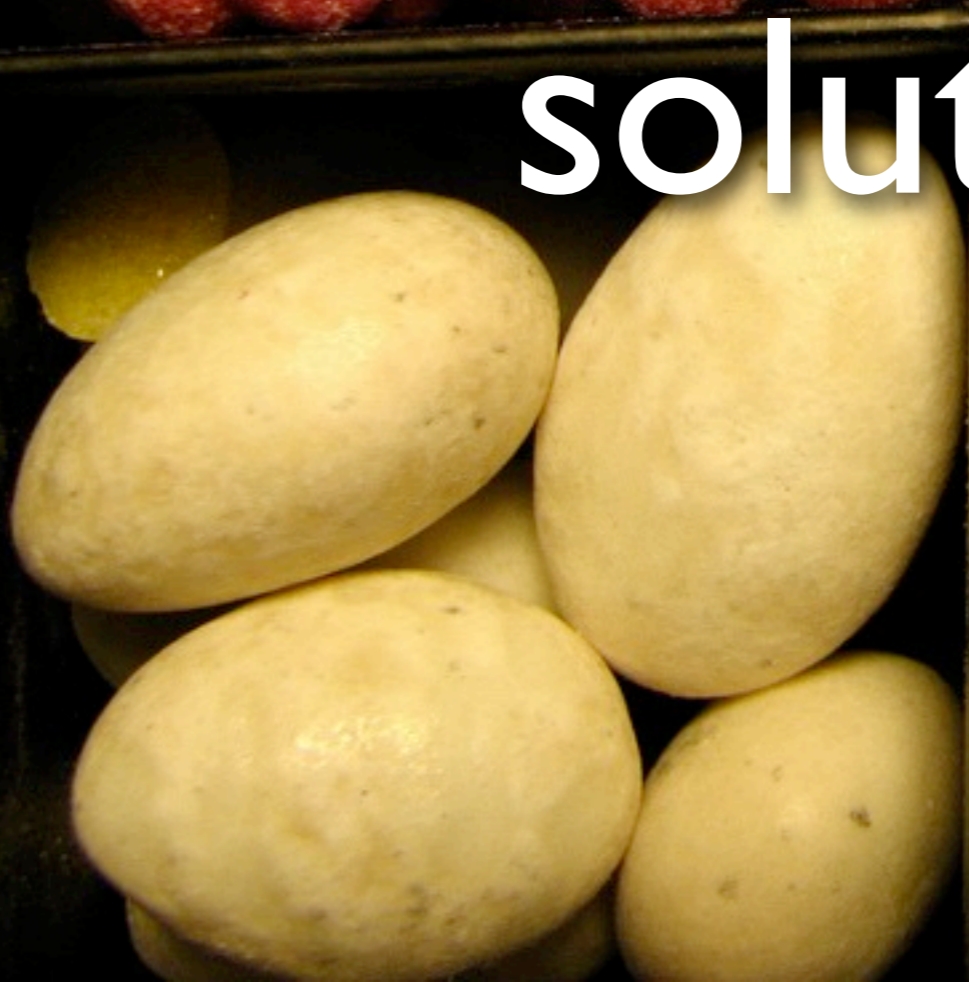
a lot of
sweet spots



Plugin System

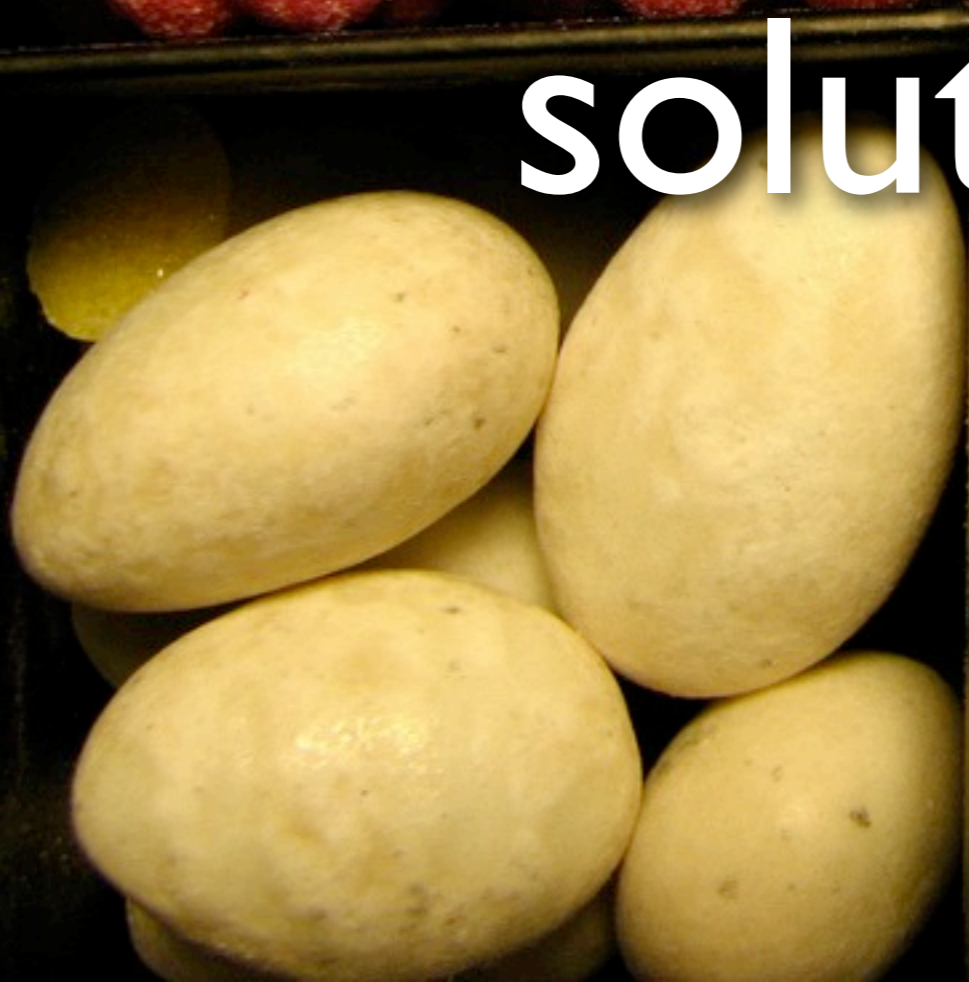


big bunch of
solutions



Validation

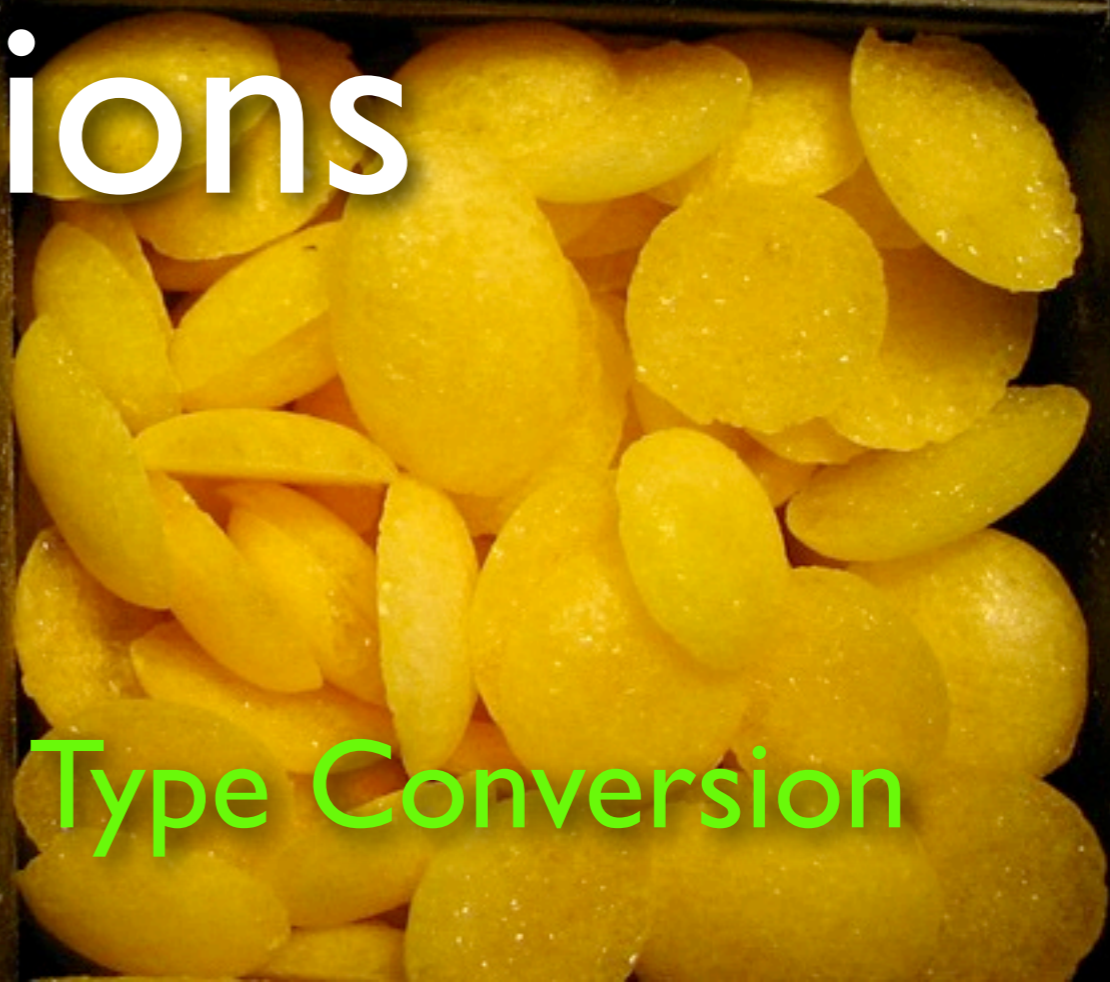
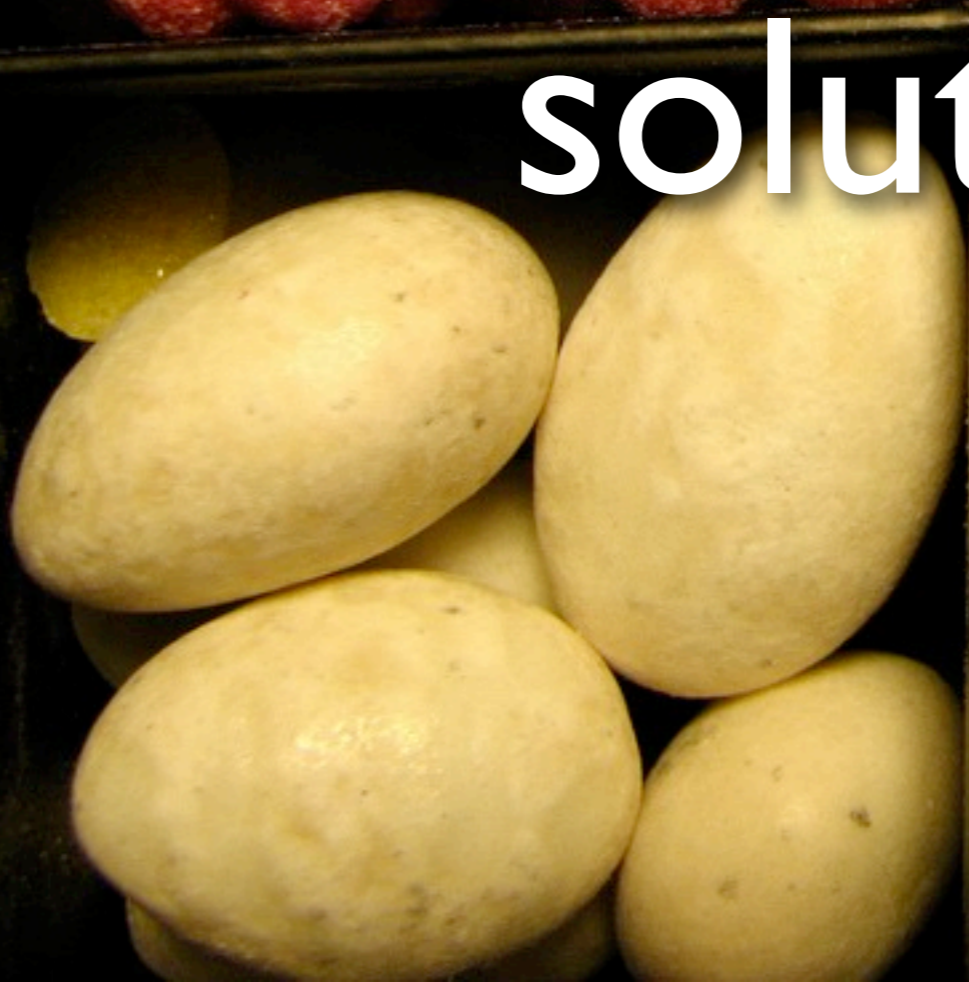
big bunch of
solutions



Validation

big bunch of
solutions

Type Conversion





Validation



big bunch of solutions



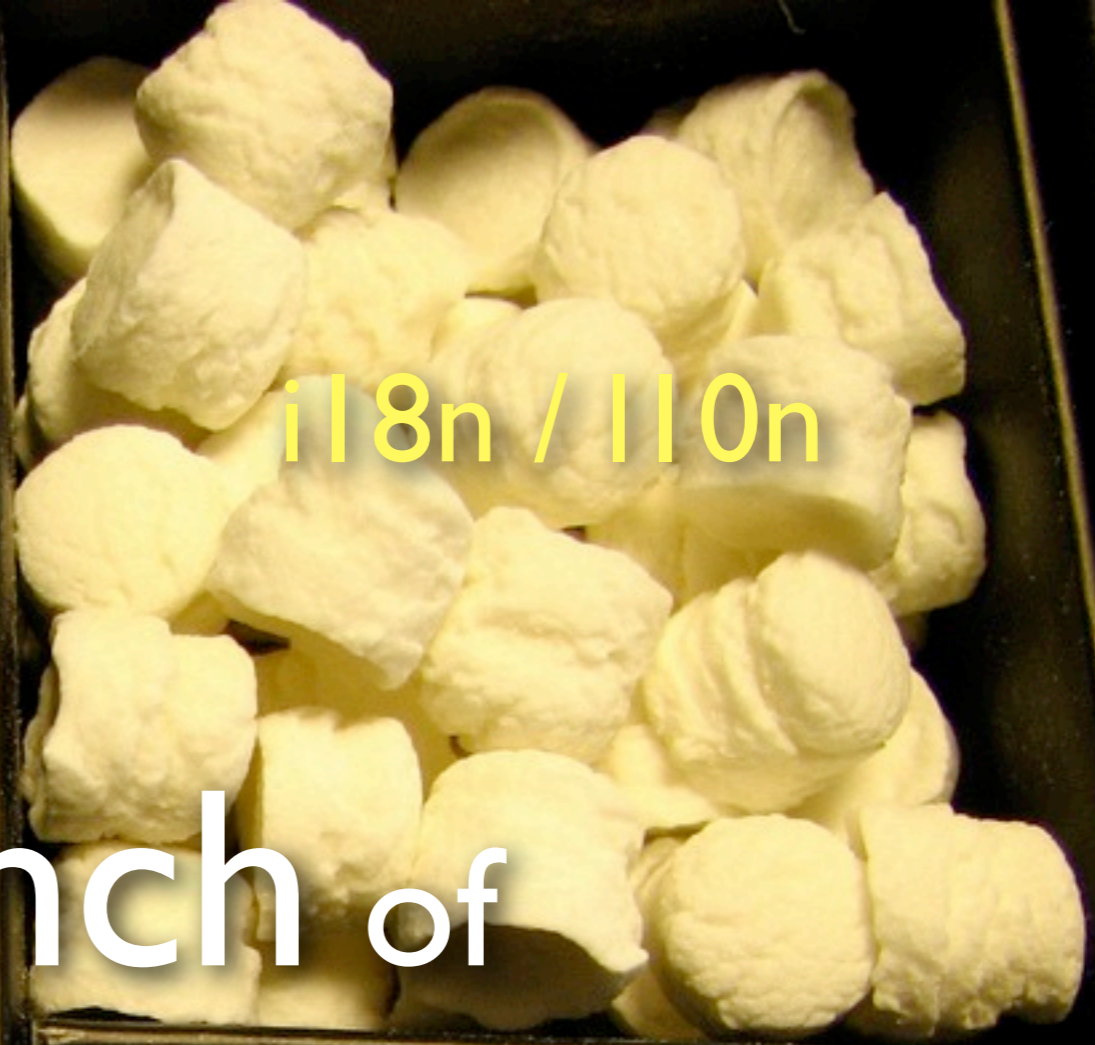
Binding



Type Conversion



Validation



i18n / l10n

big bunch of solutions



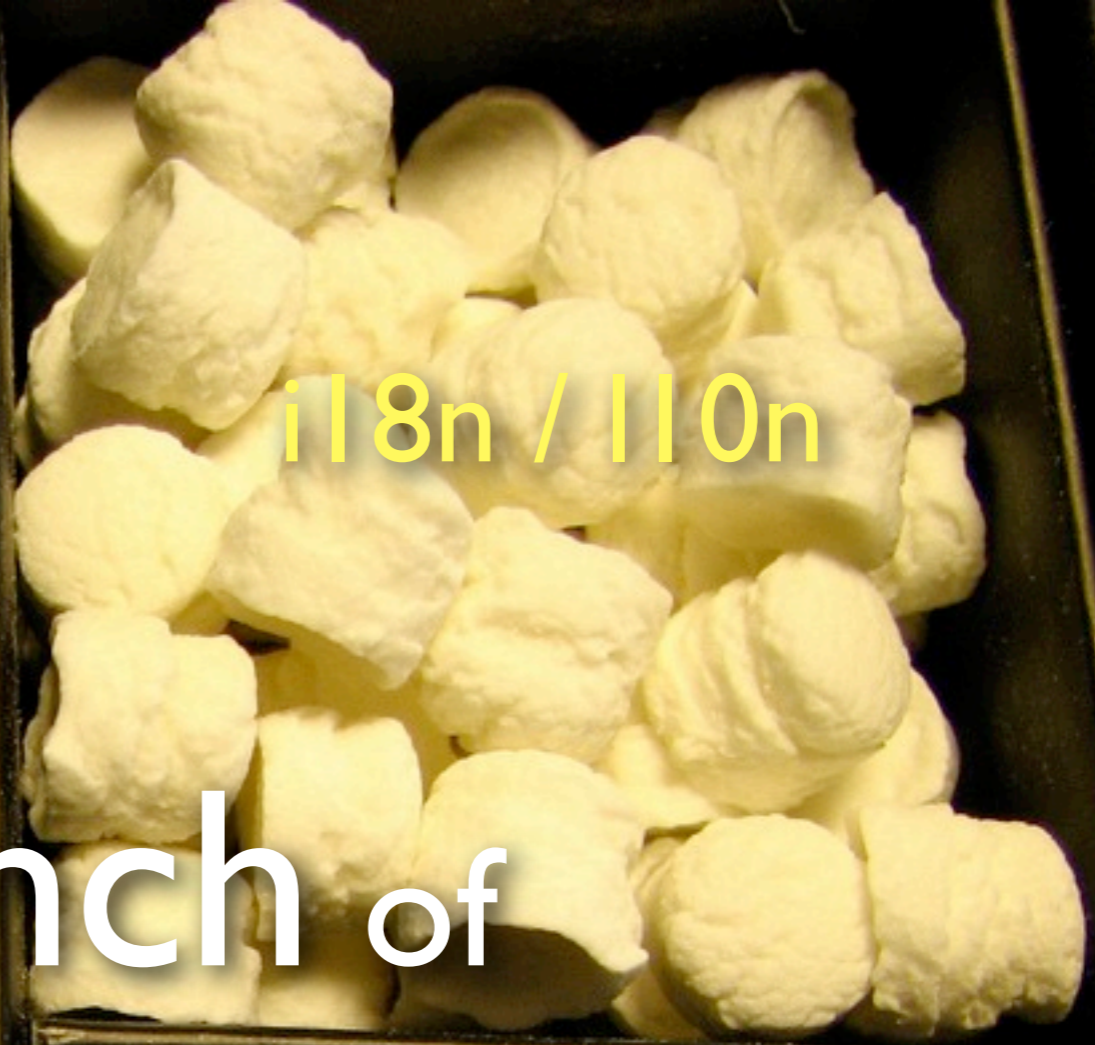
Binding



Type Conversion



Validation



i18n / l10n

big bunch of solutions

Binding

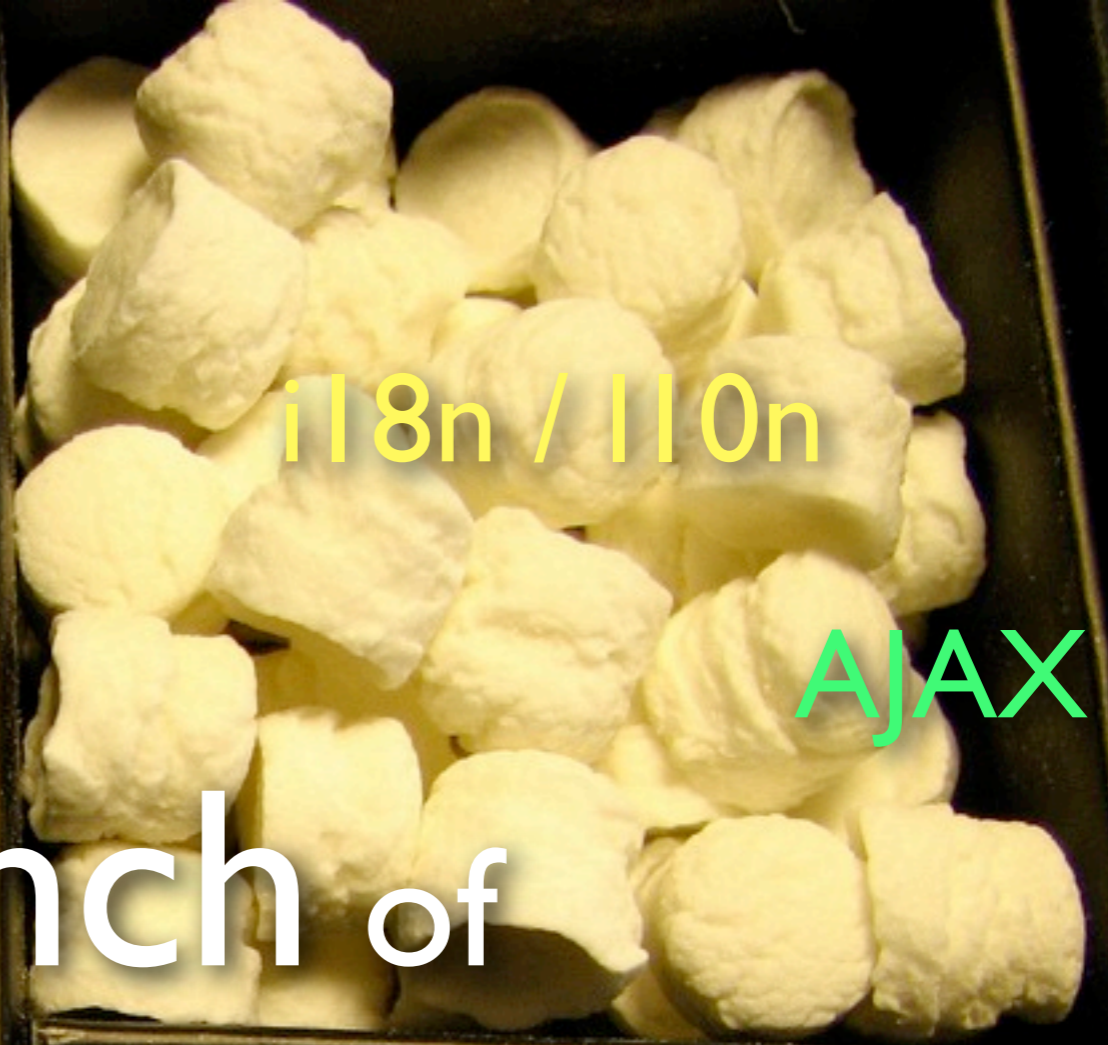


GUI Controls

Type Conversion



Validation



i18n / l10n

AJAX

big bunch of solutions

Binding

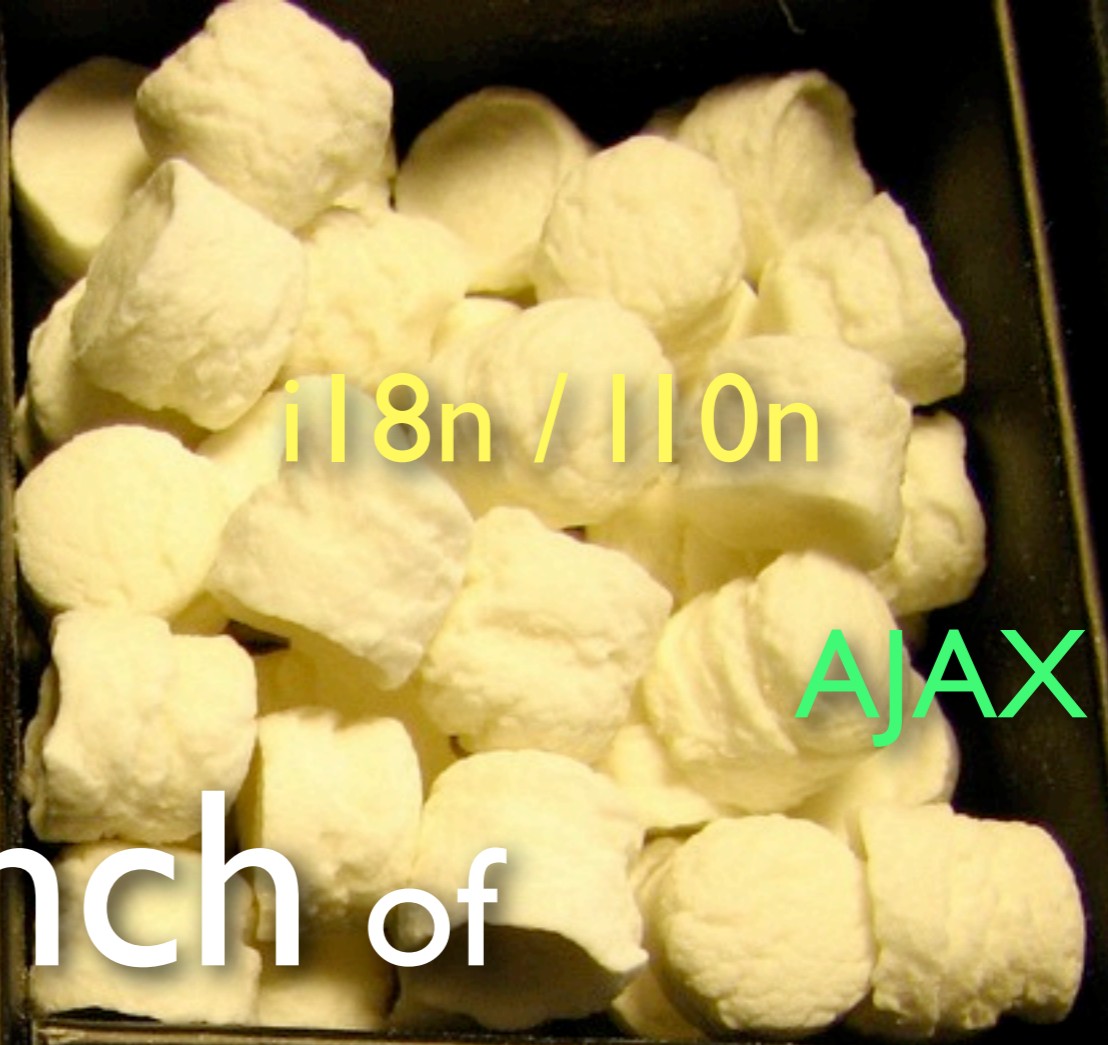


GUI Controls

Type Conversion



Validation

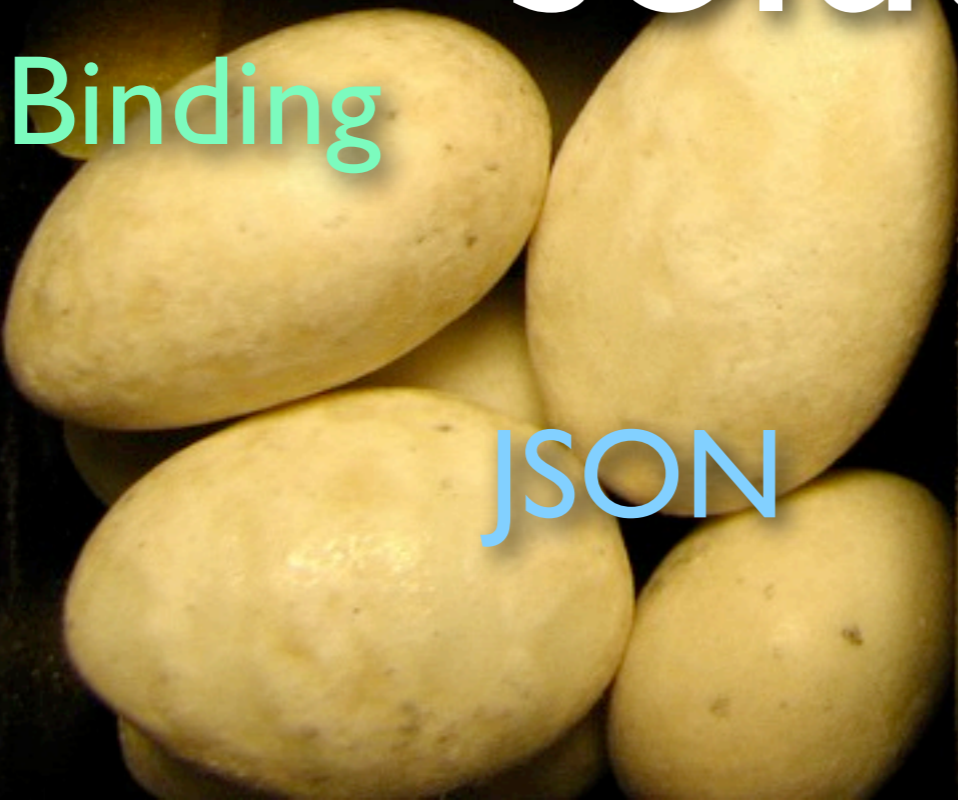


118n / 110n

AJAX

big bunch of solutions

Binding



JSON



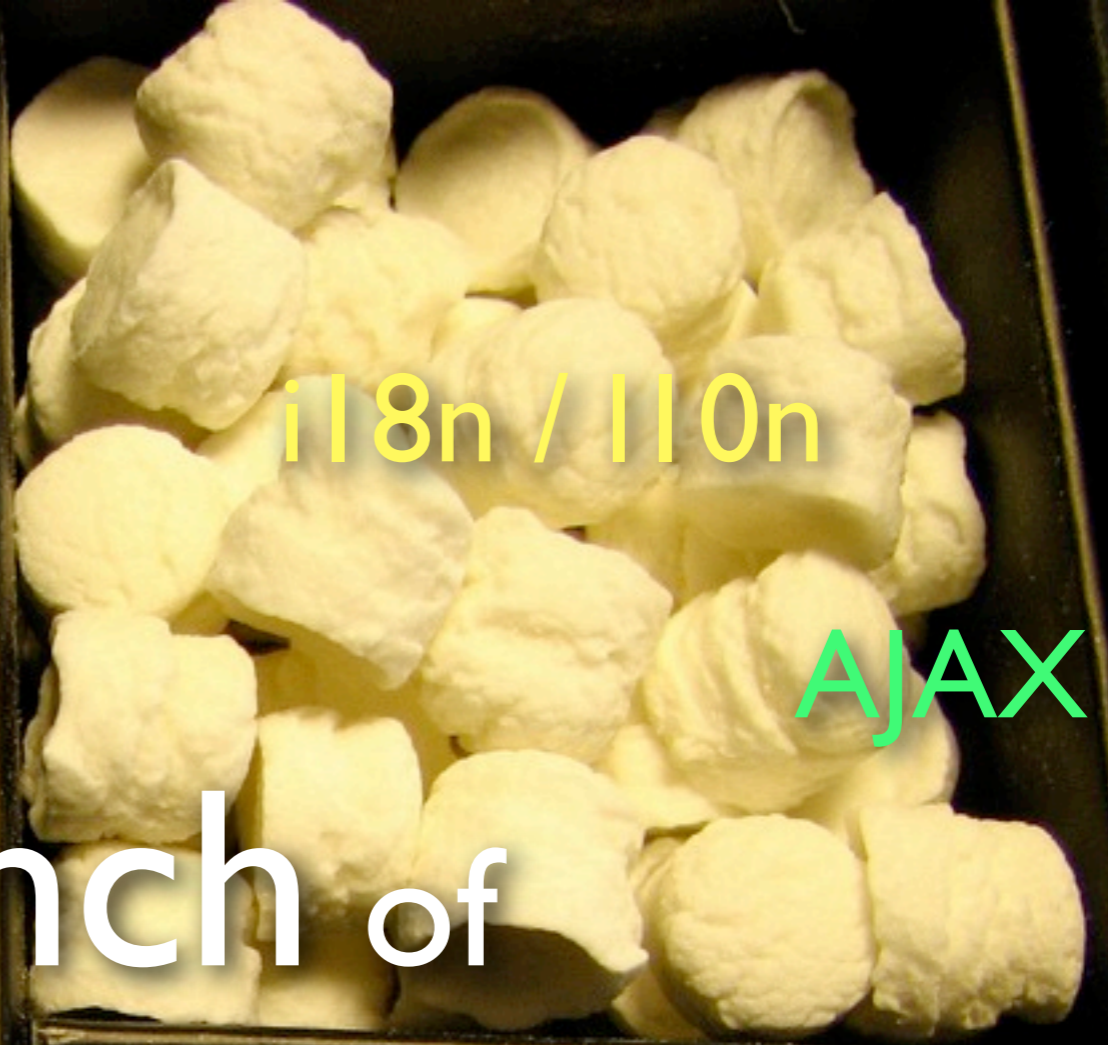
GUI Controls

Type Conversion



Validation

Freemarker



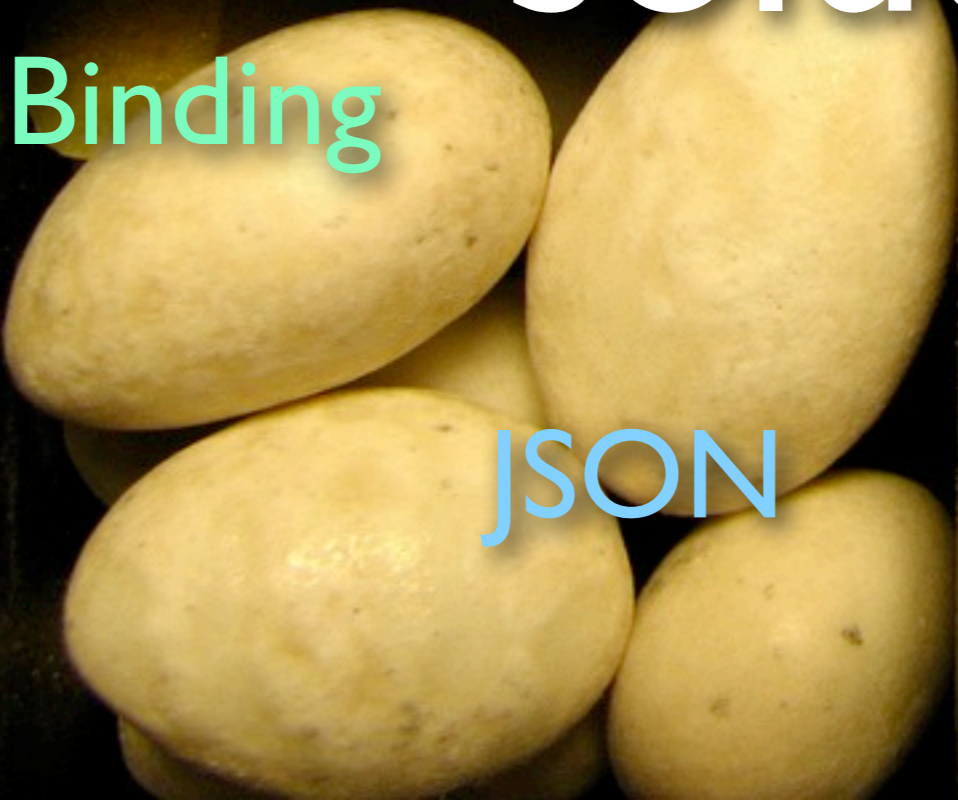
i18n / l10n

AJAX

big bunch of

solutions

Binding



JSON



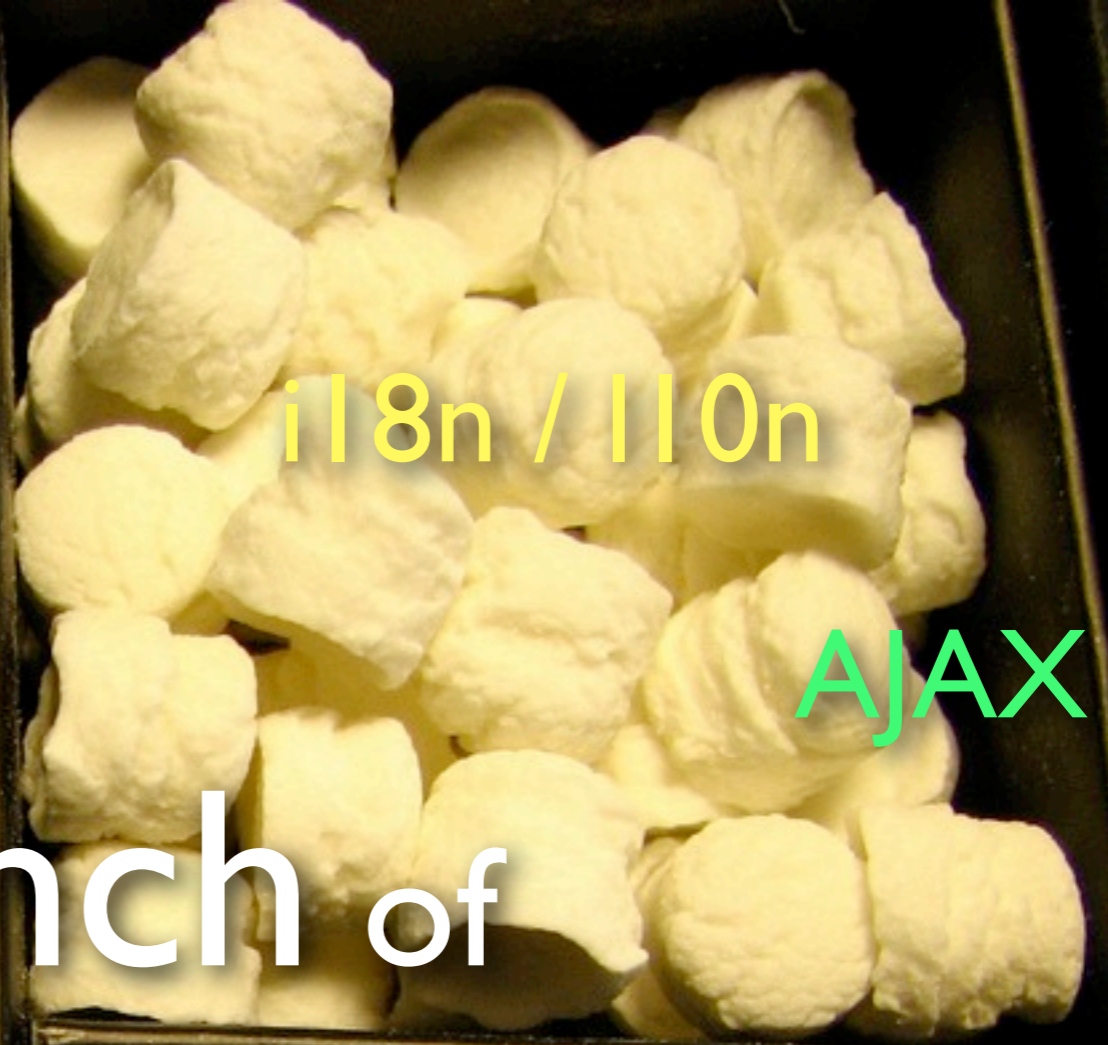
GUI Controls

Type Conversion



Validation

Freemarker



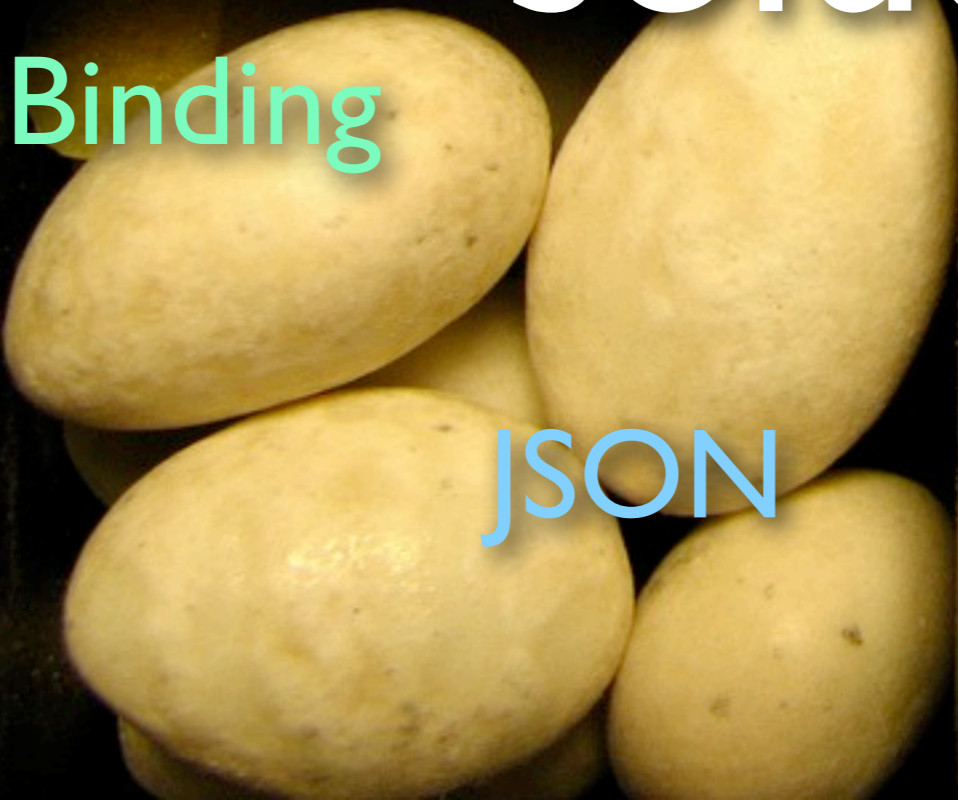
i18n / l10n

AJAX

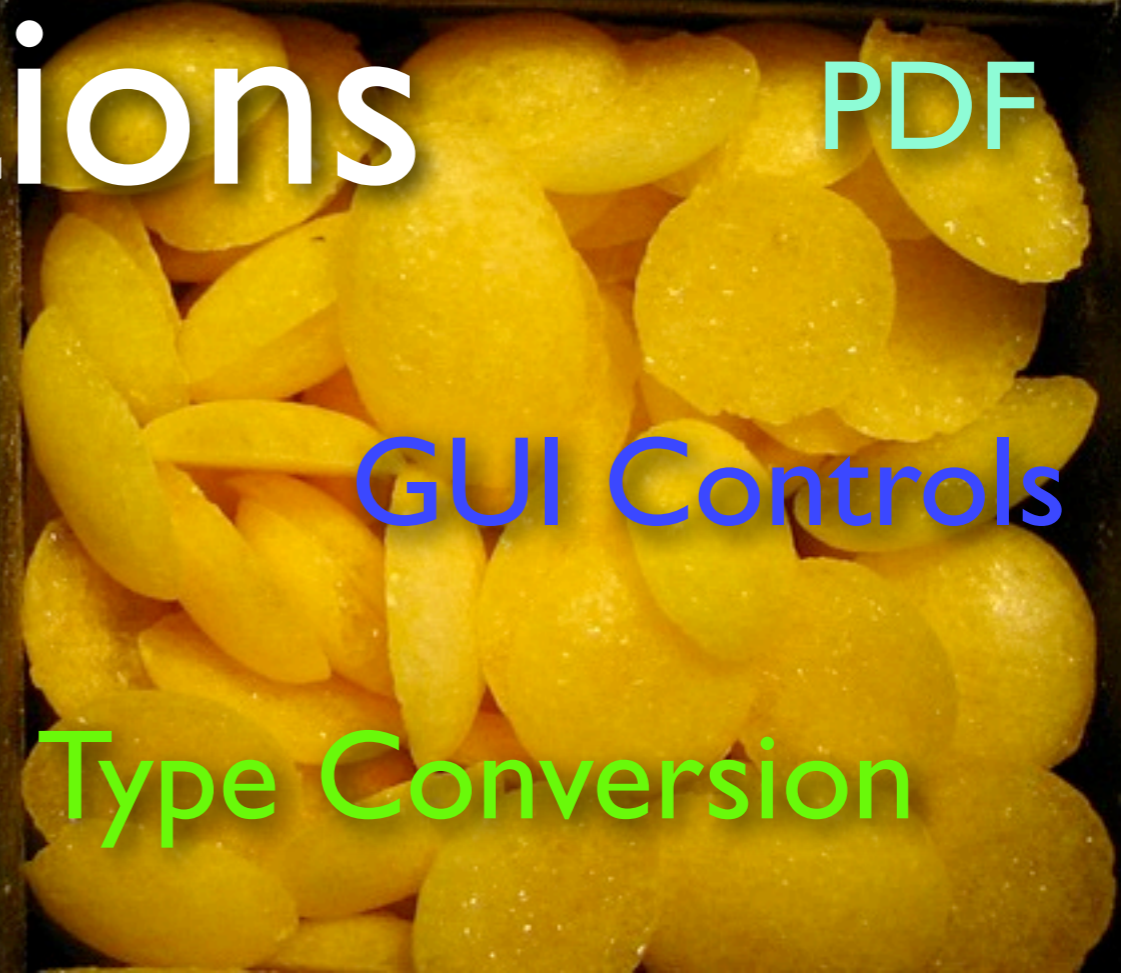
big bunch of

solutions

Binding



JSON



PDF

GUI Controls

Type Conversion



Validation

Freemarker

GUI Controls

big bunch of

solutions

Binding

AJAX

PDF

Type Conversion

could go on forever...



but let's get our
hands dirty!



Questions

A black and white photograph of a person standing on a concrete ledge. The person is wearing a t-shirt and shorts. Their shadow is cast onto the ground below. The background is dark.

keep contact!

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<http://github.com/jogep/struts2-todo-examples>

Pictures - Thanks!

1. René Gielen
2. <http://www.flickr.com/photos/heatherbuckley/5634797251/>
3. <http://www.flickr.com/photos/donshall/4147026190/>
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