

# HCI: FORMS

HCI COMP341

# REVIEW

- Menu
- Where to use menus
- What are types of menus
- How to use menus
- Menu showcase
- On responsive design



# OVERVIEW

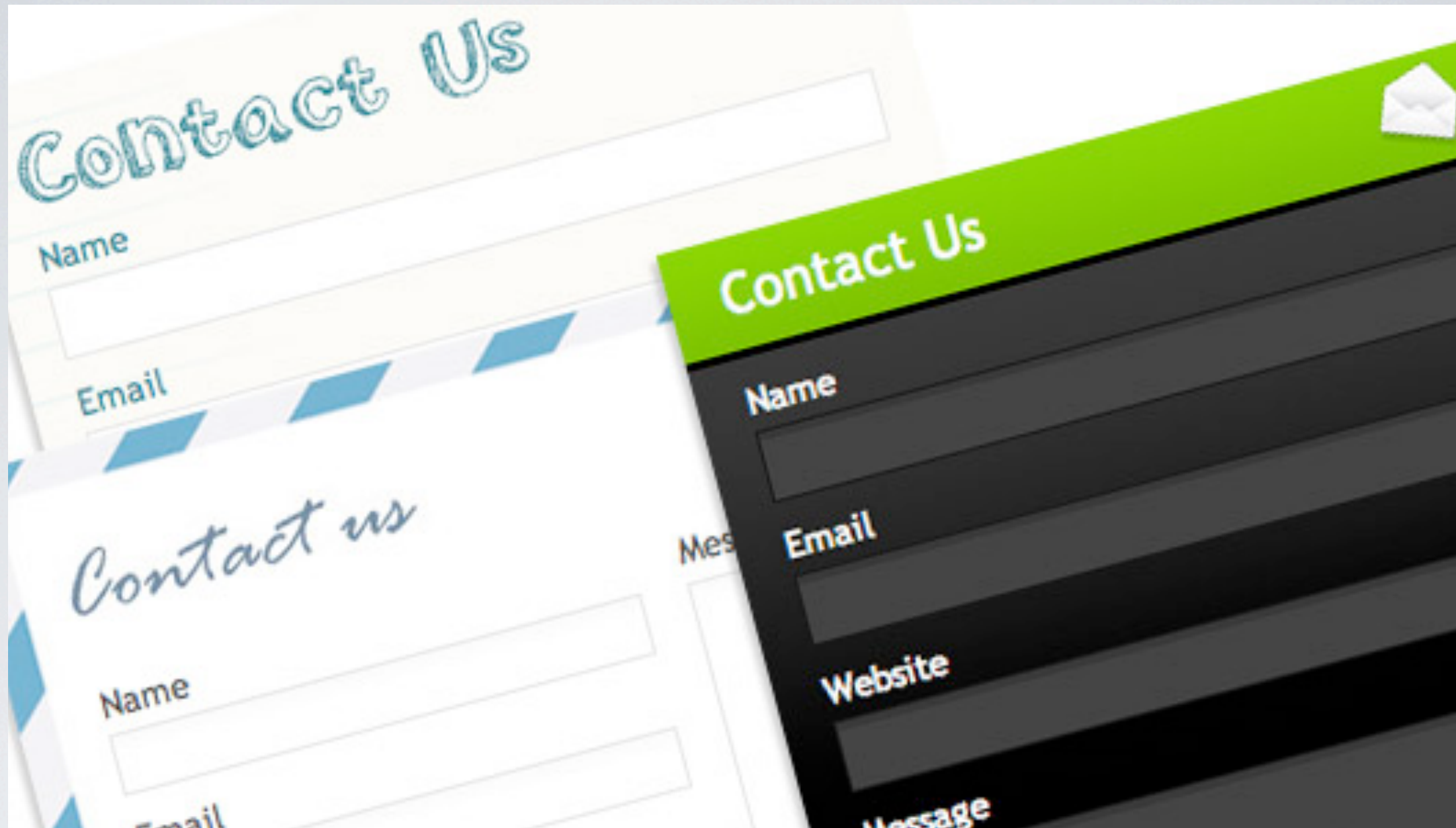
- Forms
- Elements of Form
- Form Design Guideline
- Validation
- Captcha
- Best practices

# REPORT

- Persona
- Functional Requirement
- Write a scenario
- paper prototype
- feedback
- low-fidelity prototype



FORM



# WHAT DO FORM DO?

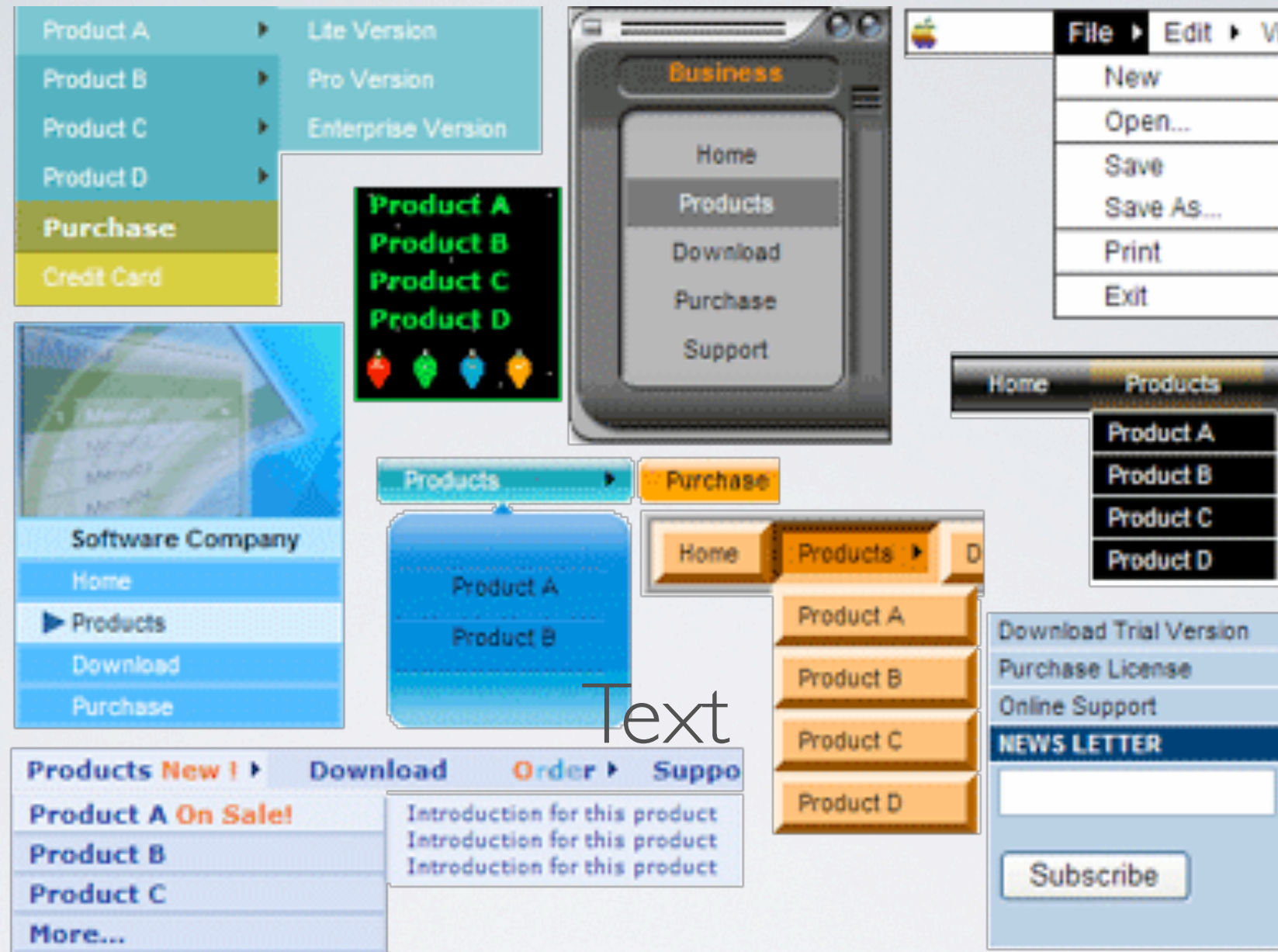
Point of communication and data gathering



# BENEFIT OF FORM

- Transition from read only web
- Personalize user experience
- Proper usages
  - Saves time
  - Reduce errors
  - Provides instant feedback/result





# FORM USAGES

data collection, feedback, communication, enrollment, legalization, product enhancement etc.



# ELEMENTS OF FORM

Search



# TEXT

Simple one liner input field





Checked



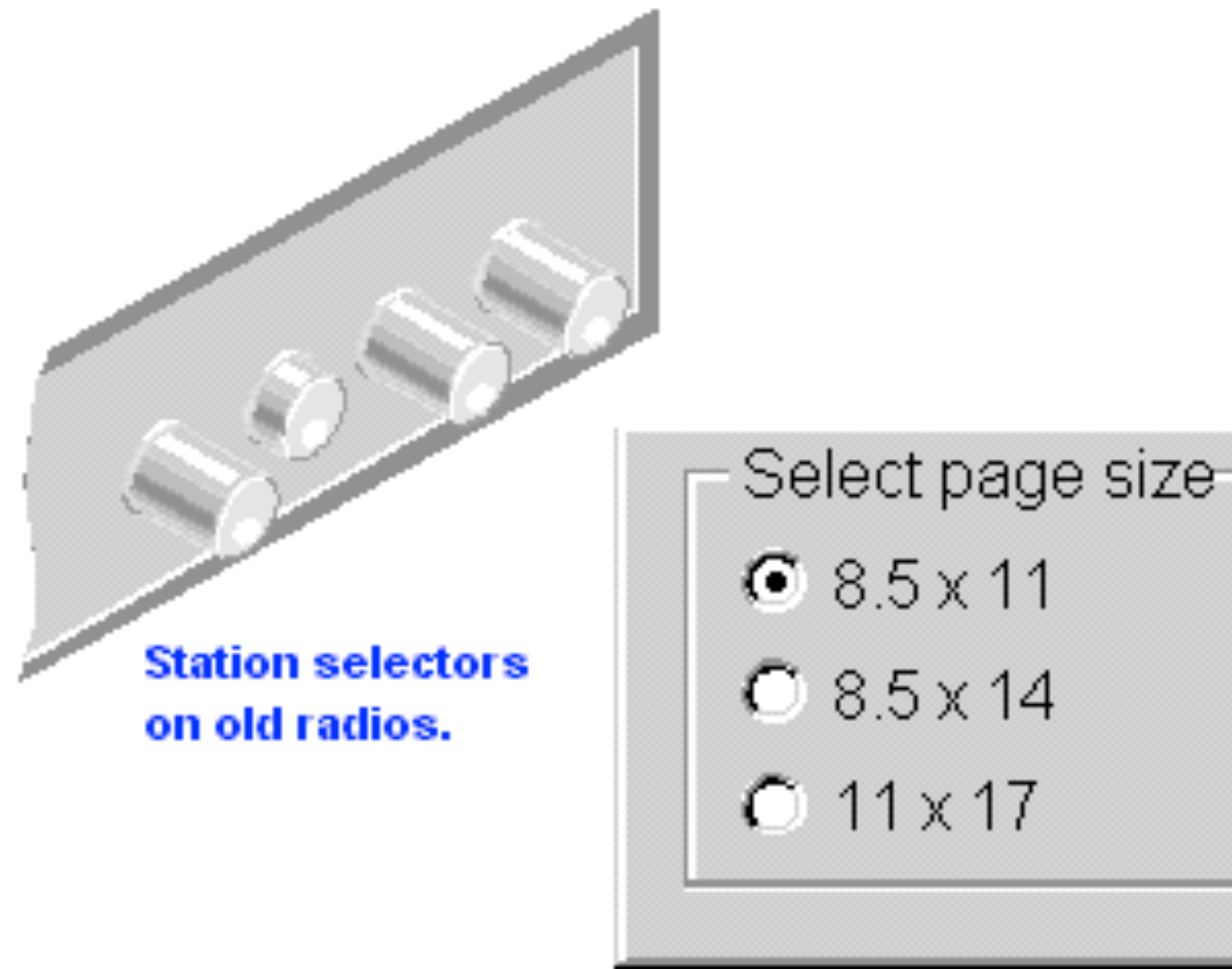
Tristate / Indeterminate



Unchecked

# CHECKBOX

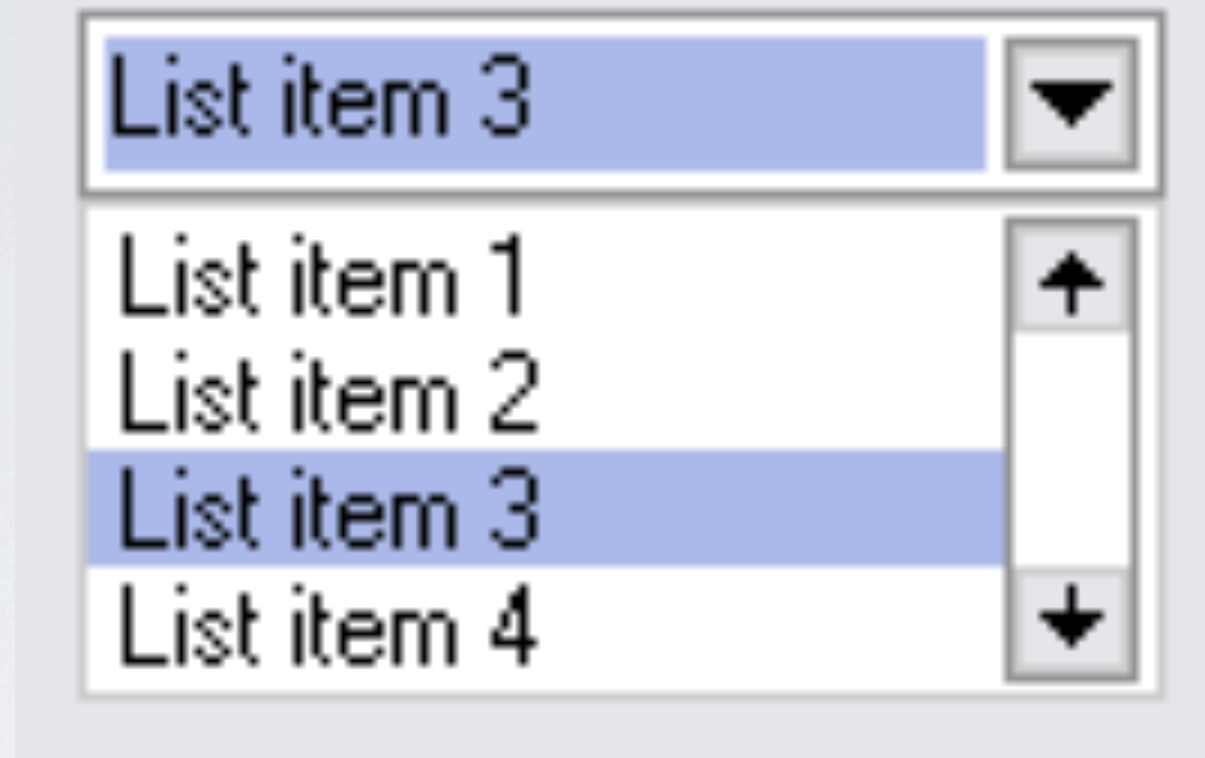
Clickable box with some kind of tick mark to show selected states, generally suited for multiple selection



# RADIO BUTTON

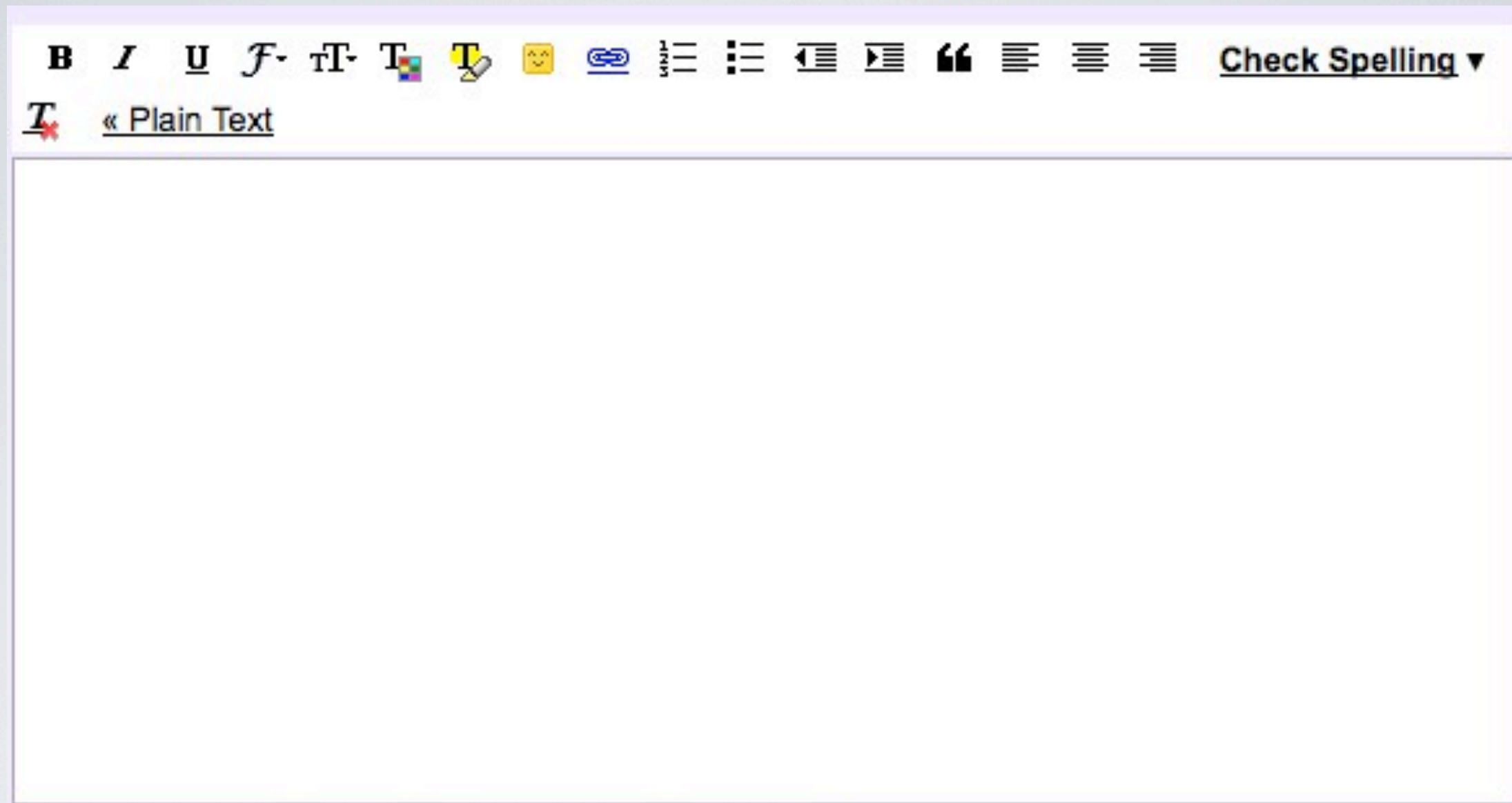
Used to set a flag or select single item from multiple selection  
mostly when one input is mandatory





# DROP-DOWN LIST

elements which appears as list of selectable items, might contain own set of behavior (multiple select, scrollable, indexed etc.)



# TEXT ENTRY

multiple lines of text entry for entering larger chunk of text,  
sometime with inbuilt editor.





# BUTTONS

clickable item with different features to support submission, rejection, selection action on webform





# MOBILE VERSION

presents different affordance, easier to use, navigate in mobile device.



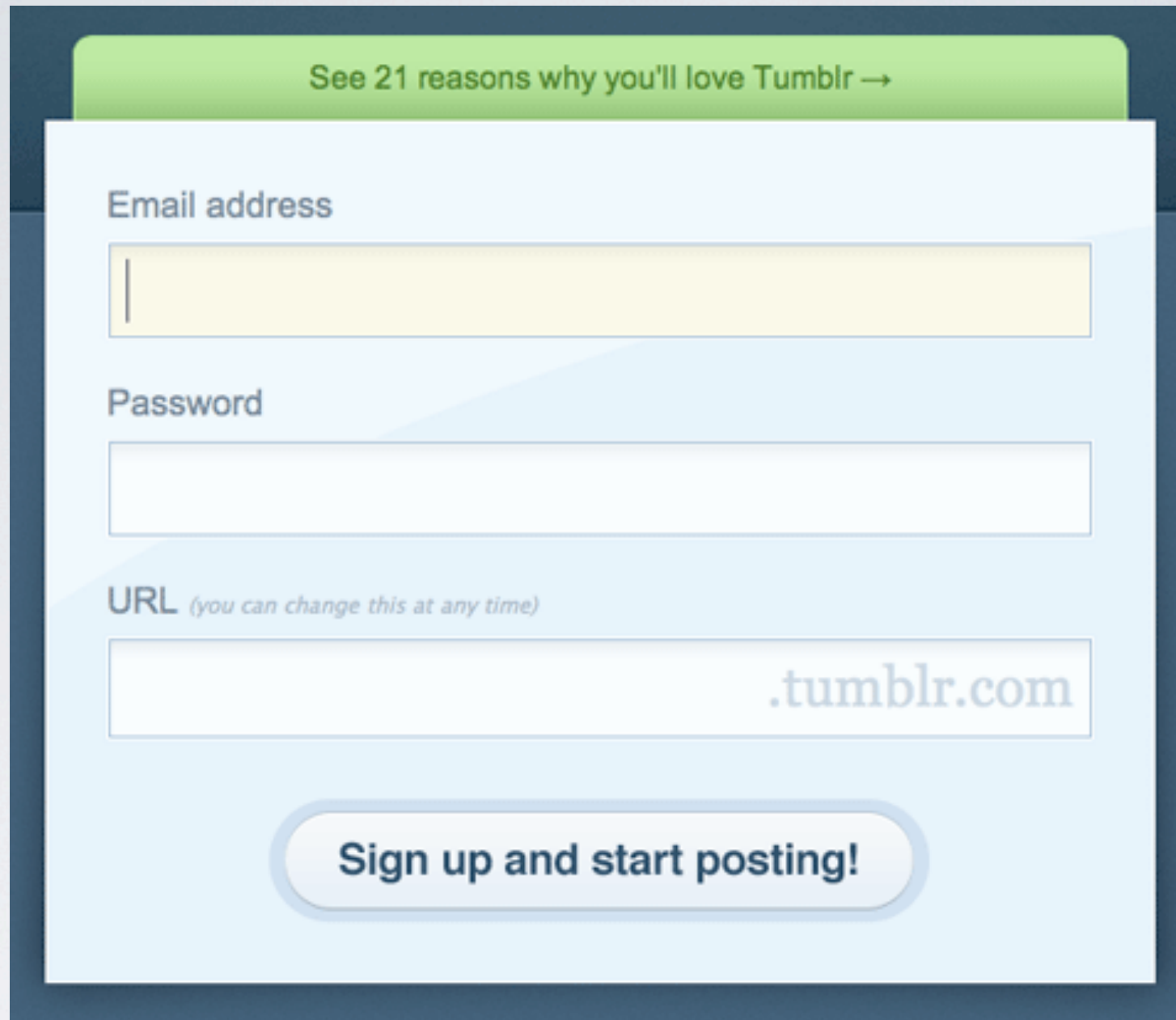
# DESIGN GUIDELINE



# STUDY FROM EYE TRACKING

- Make the form fields vertical, not horizontal
- Left-aligned labels are clearer
- People tend to fill out all form fields regardless
- Headlines draw eyes before pictures
- People scan the left side of everything
- The first few words of headlines are very important
- Single column designs produce the most eye fixations
- Scrolling is okay
- Introductory paragraphs get read
- People read the headline and the first paragraph before scanning the left side of the content
- Headlines should start with keywords to pull the eyes from the left margin



A screenshot of the Tumblr sign-up form. At the top is a green button with the text "See 21 reasons why you'll love Tumblr →". Below it is a light blue box containing the form fields. The fields are labeled "Email address", "Password", and "URL (you can change this at any time)". The "Email address" field is a yellow rectangle. The "Password" field is a white rectangle. The "URL" field is a white rectangle with ".tumblr.com" pre-filled in a light blue font. Below the fields is a rounded button with the text "Sign up and start posting!".

See 21 reasons why you'll love Tumblr →

Email address

Password

URL (you can change this at any time)

.tumblr.com

**Sign up and start posting!**

Use a simple vertical layout with labels above the input fields.  
If left aligned, make it bold.

## Primary & Secondary Actions

Primary Action

Secondary Action

**Disadvantage:**  
Potential Errors

Primary Action

Secondary Action

**Advantage:**  
Clear Action

Primary Action

Secondary Action

Differentiate primary and secondary action with visual clues  
(colors, size, borders, proximity etc.)




First line of address	<input type="text"/>
Second line of address	<input type="text" value="Optional"/>
Town / City	<input type="text"/>
County	<input type="text" value="Optional"/>
Post Code	<input type="text"/>

Denote optional field clearly, asterisk are merely visible or viewed.

A tick appears in real time for a few seconds when a valid input is entered



1. Tell us about yourself...

My Name   

Gender

Error message appears in real time when an input is not provided or an invalid input is entered

1. Tell us about yourself...

 My Name    This information is required information

Gender

Don't use real time feedback





1 ACCOUNT  
Basic account info


2 PERSONAL  
Personal details



3 PAYMENT  
Select method

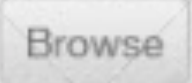
4 CONFIRM  
Review details

Username JohnDoe  Username available

E-mail hello@mydomaincom  Invalid email address

Password 

Re-type password   Password matches

Avatar C:\Users\Tommie\My Documents\My 

let user know about multiple segmentation

# Contact Form

---

**Name \***

First

Last

**Email \***

**Phone \***

###

-

###

-

####

**Message \***

**Send Email**

use grid, proximity, closure, common fate etc. to group and distinct elements in form.



What's your Name ?

use human language, sometime even a bit of humor won't hurt

## Registration process

---

Name

*What's your name?*

E-mail

*Stop cowboy! Type a valid e-mail please :P*

Password

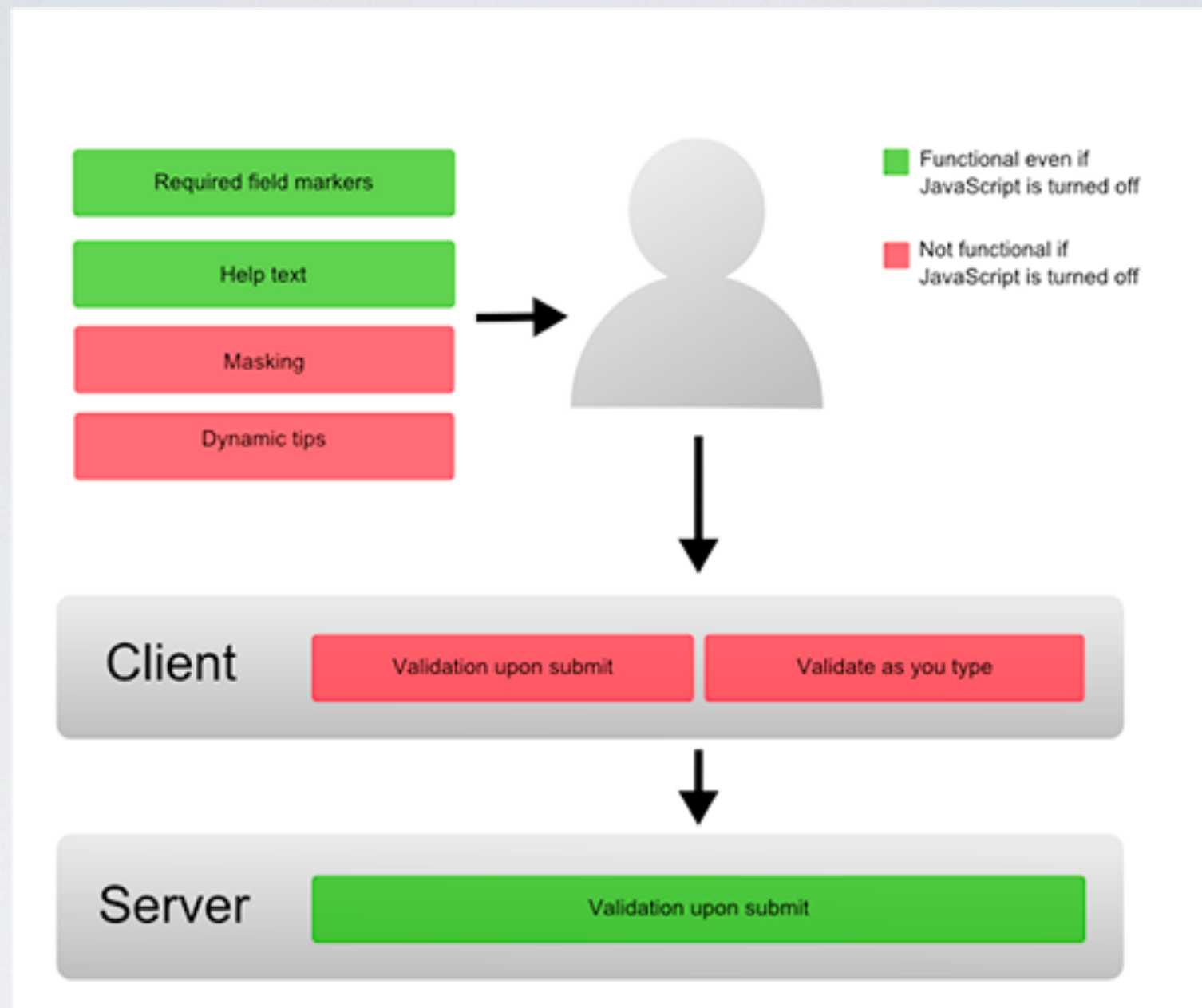
*Ey! Remember: At least 5 characters: letters, numbers and '\_'*

Confirm Password

*Confirm password*

validate the form





# VALIDATION TYPE

Server side and Client side validation can be mixed for better result

CAPTCHA



following finding

# ARE YOU HUMAN?

simple verification to know you won't be spammed



## PICATCHA Image Grid

Select ALL the images containing one or more **house**



[Powered by Picatcha](#)

Refresh

Submit

# IMAGE CAPTCHA

Alternatively use image as captcha



→ जन्म मिति वा नागरिकता न. इन्टर गरी सोधिएको प्रश्नको उत्तर दिई submit गर्नुहोस्

☒ जन्म मिति:

<input type="text"/>	/	<input type="text"/>	/	<input type="text"/>
साल		महिना		गते

☐ नागरिकता प्रमाणपत्र नं:

तलका तस्विर मध्ये, डाफे छान्नुहोस्



SUBMIT

# AVOID PITFALL

can you tell me which one is 'daphen'

To prevent spam please solve this simple math problem below

14 - 9

Answer :

Submit

Captcha Math Copyright © 2008 [Nickolas Whiting](#)

# MATH CAPTCHA

use math as captcha but ...



### Qualifying question

Just to prove you are a human, please answer the following math challenge.

Q: Calculate:

$$\frac{\partial}{\partial x} \left[ 4 \cdot \sin \left( 7 \cdot x - \frac{\pi}{2} \right) \right] \Big|_{x=0}$$

A:

mandatory

Note: If you do not know the answer to this question, reload the page and you'll get another question.

# MATH CAPTCHA

... It's so hard to be human sometime!

# BEST PRACTICES



The image shows a contact form with a light cream background and a decorative border of red and teal diagonal stripes. The form is divided into two main sections. The left section contains three input fields: 'Name' (a wide rectangular box with diagonal hatching), 'Number' (a box with a teal border containing the text '077' and a vertical cursor), and 'Email' (a wide rectangular box with diagonal hatching). The right section is a large rectangular box labeled 'Enquiry' with diagonal hatching. At the bottom center, there is a teal button with white text that reads 'Send Your Enquiry'.

Name	Enquiry
Number 077	
Email	
Send Your Enquiry	

DESIGN

# Quick Contact

Message


Name


Email


Send


ELEMENT PLACEMENT





 Name

 Email

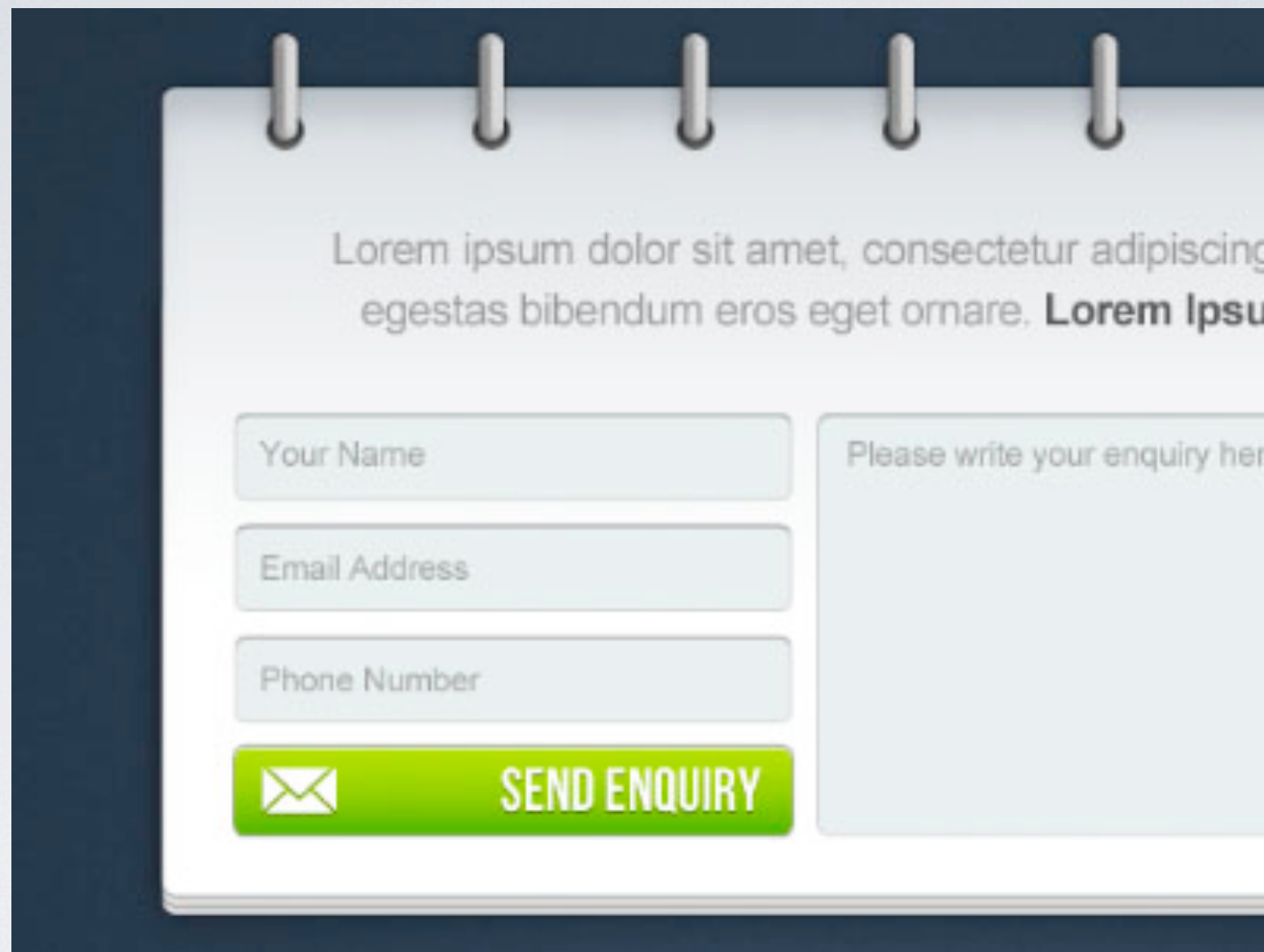
 What can I help you with?

 What is your budget? (optional)

 What is your

 Message

# ICONIC




Lorem ipsum dolor sit amet, consectetur adipiscing  
 egestas bibendum eros eget ornare. **Lorem Ipsu**

Your Name

Email Address

Phone Number

Please write your enquiry here

 **SEND ENQUIRY**

MULTIPAGED



## Chemistry Recruitment

Millgate Court, Terrace Road North, Binfield,  
Berkshire RG42 5HZ

T: +44 (0)1344 418300

F: +44 (0)1344 827187

E: [people@chemistryrecruitment.com](mailto:people@chemistryrecruitment.com)

Send us a message

Name:\*

Email:\*

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Subject:\*

Your Message:\*

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Directions



Skype us!

# METAPHOR

TOUCH VISION



MANY THANKS