

Scheme による  
オンライン学習システムの構築

資料編

0448003

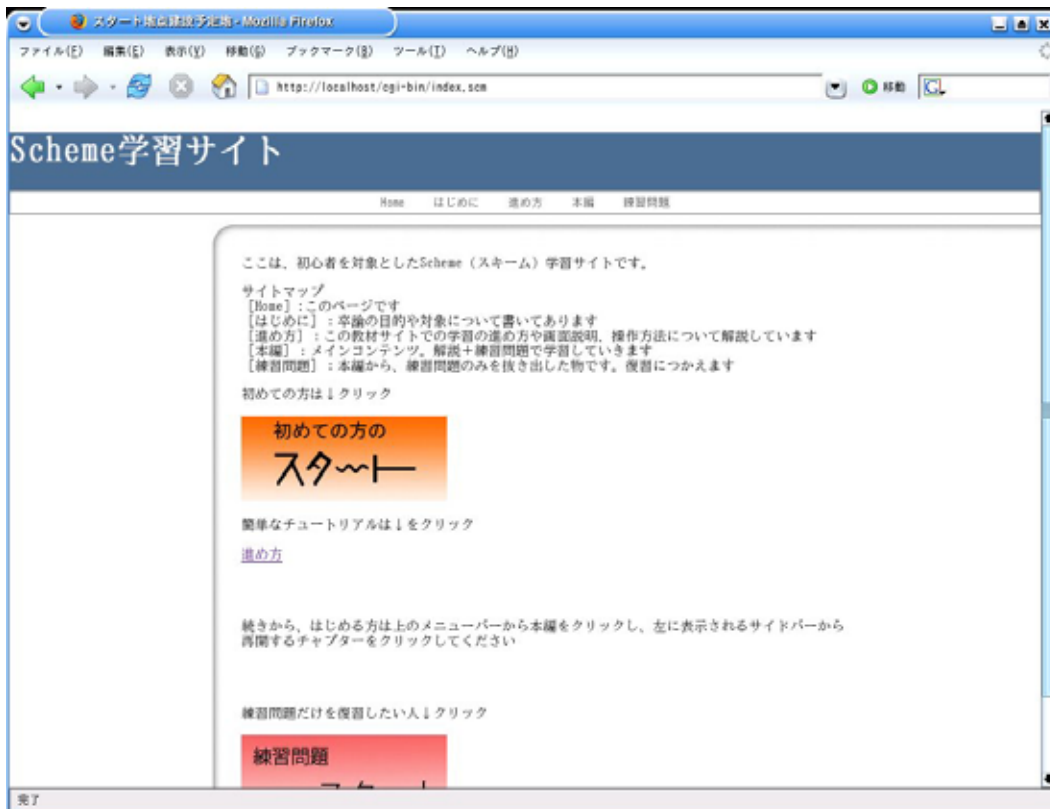


図1 画像によるリンク



図2 画像による Gauche の起動説明

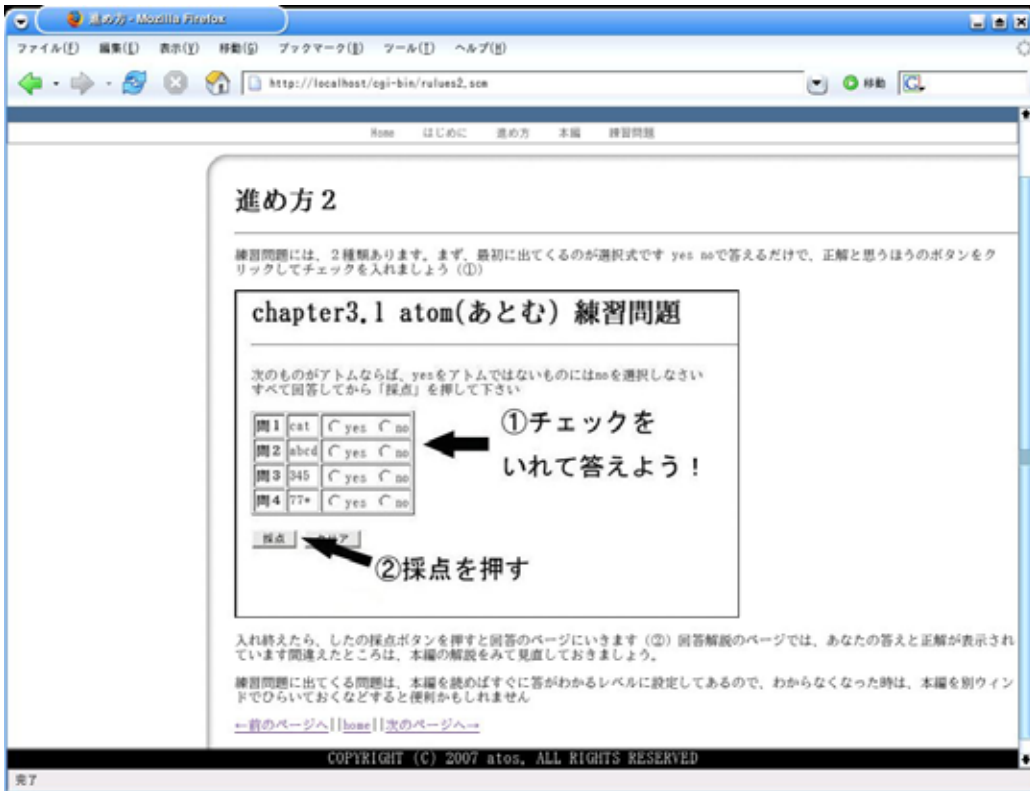


図3 操作方法の説明



図4 不正解の場合



図5 練習問題

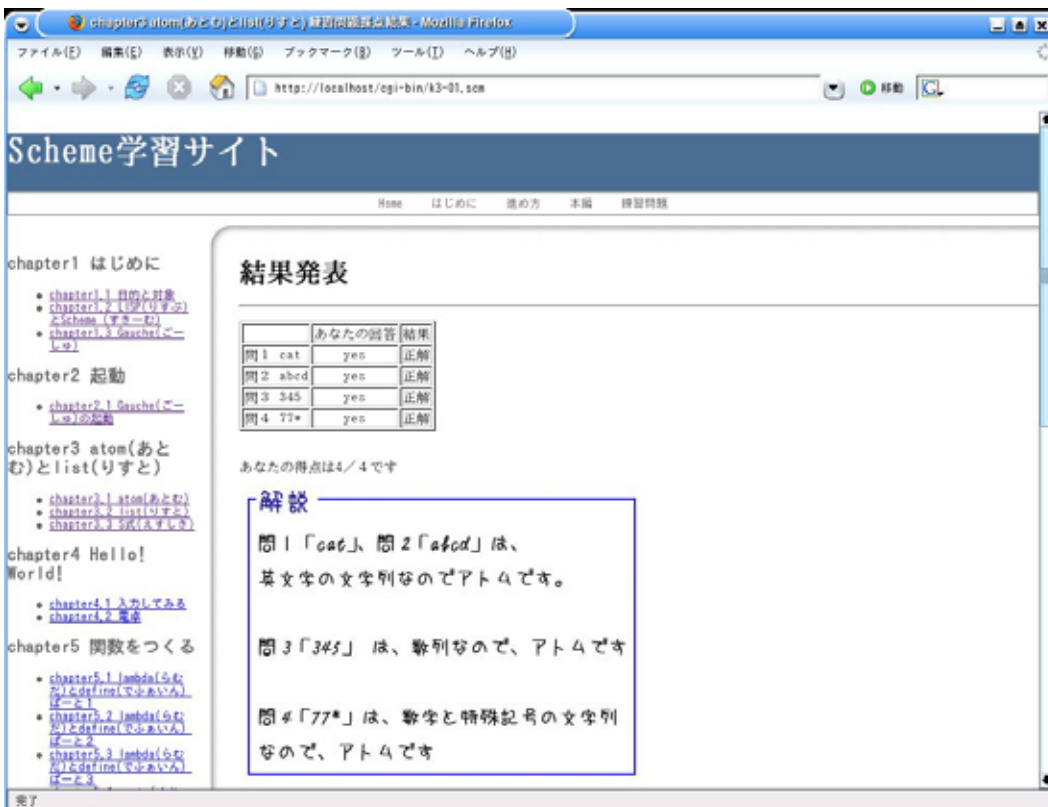


図6 選択式練習問題の解答結果



図 7 記述式練習問題

## ひな型 1

```
#!/usr/local/bin/gosh
;; -*- coding:euc-jp -*-

(use www.cgi)
(use text.html-lite)
(require "./sbar")
(import sbar)

(cgi-main
 (lambda (params)
  (list
   (cgi-header)
   (html-doctype)
   (html:html
    (html:head
     (html:meta :http-equiv "Content-Type" :content "text/html;
charset=euc-jp")
     (html:title "HTML のテスト"))
    (html:body
     (html:h1 "HTML のテスト")
     (sbar)
     (html:br)
     (html:form :action "cgitest.cgi" :method "POST"
      (html:p
       (html:input :type "text" :name "sample"))
      (html:p
       (html:input :type "submit" :value "send")))))))))))
```

## ひな型 2

```
#!/usr/local/bin/gosh
;; -*- coding:euc-jp -*-

(use www.cgi)
(use text.html-lite)
(require "./sbar")
(import sbar)
(cgi-main
 (lambda (params)
  (let ((sample (string->number (cgi-get-parameter "sample" params))))

   (list
    (cgi-header)
    (html-doctype)
    (html:html :lang "ja"
     (html:head
      (html:meta :http-equiv "Content-Type" :content "text/html;
charset=euc-jp")
      (html:meta :http-equiv "Content-Style-Type" :content "text/css")
      (html:title "HTML のテスト"))
     (html:body
      (sbar)
      (html:h1 (* sample 2))))))))))
```

### ひな形 3

```
#!/usr/local/bin/gosh
;; -*- coding:euc-jp -*-

(use www.cgi)
(use text.html-lite)
(require "./sbar")
(import sbar)
(cgi-main
 (lambda (params)
  (let ((s (regexp-replace-all #/¥s+/ (string-trim-both(cgi-get-parameter "s1"
params)) " ")))
  )
 (define (my-eval s)
 (write-to-string (eval (read-from-string s)
(interaction-environment))))
 )
 (list
  (cgi-header)
  (html-doctype)
  (html:html :lang "ja"
   (html:head
    (html:meta :http-equiv "Content-Type" :content "text/html;
charset=euc-jp")
    (html:meta :http-equiv "Content-Style-Type" :content "text/css")
    (html:title "HTML のテスト"))
   (html:body
    (sbar)
    (html:h1 (my-eval s))))))
```



## サイドバーモジュール

```
#!/usr/local/bin/gosh
;; -*- coding:euc-jp -*-
(use www.cgi)
(use text.html-lite)

(define-module sbar
  (export bar1))
(select-module sbar)

(define(bar1)
  "
  <div id='header'>
  <h1>Scheme 学習サイト</h1>
  <div id='navbar'>
  | <span><a href='index.scm' title='Home' id='home'>Home</a></span> |
    <span ><a href='hajimeni.scm' title='hajime' id='hajime'>はじめに</a></span> |
  <span><a href='rules.scm' title='rules' id='rules'>進め方</a> </span>|
  <span><a href='index.scm' title='main' id='main'>本編</a></span> |
  <span><a href='training.scm' title='training' id='training'>練習問題</a></span>
  |
  </div>
  <div id='boxA'>
  </div>
  </div>
  <div id='menubar'>
  </div>
  ")
  (provide "sbar")
```