



IRREGEX WEBSITE DESIGN DECK

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Site Goals

Design a website to teach people about regular expressions through **concise, engaging** and **gamified** lessons as well as create a supportive **learning community**.

These are good goals, but how will you know if you accomplish them? E.g. how will you know if the lessons are gamified? or engaging? What are the metrics that you'll use to determine this?

Short Term Goals

- Quizzes/testing material
- Video lessons/images
- Reference pages
- Gamified learning
- Social media sharing
- Simple, pleasing visual design

Long Term Goals

- Built-in code editor to allow people to test code
- Quick reference for the "stackoverflow googler"
- Forum for questions and feedback/building community

Ranking of Goals

- 1 50 Pages of Dynamic Content related to regular expression learning
- 2 Provide content across video, quizzes, reference material, diagrams
- 3 Gamified Learning
- 4 Visual design that is minimalistic and flows well to provide a good user experience
- 5 Sharing on social media of achievements
- 6 Long term goals

The target audience for Irregex are **high school** to **college** aged students as well as **new college grads/young people** in the **tech industry**. These people would come to our website with the intention of **looking to learn more** about regular expressions through structured lessons as well as people **looking for a quick reference guide** to solve individual problems.

Novice Programmers

1 *Sharon Everwood googles regular expressions because she wants to learn all about them. She finds our website and quickly navigates to the start of the tutorial and begins her learning.*



2 *Mick Mcquaid is cramming for a test on regular expressions the next day. He goes to our website and wants to quickly gain a comprehensive knowledge on regex to pass his exam. He blazes through the material at 2am.*



3 *Mark Zuckerberg missed a class at school and wants to fill in the gap in his knowledge. He comes to the website and tries to find material relating to the specific lecture that he missed.*



4 *Jeff Bezos has Dean Ganskop for an instructor and he is terrible at teaching regular expressions. He wants to start over and rebuild his foundation of knowledge so that he can learn about regular expressions.*

I don't know if I should be honored that Jeff Bezos is in my class or insulted that I'm so terrible at teaching regex.



5 *Frank Reynolds is looking to learn regular expressions over the next few months. He finds the website and completes a few lessons with the intent on coming back to continue his learning.*





SHARON EVERWOOD, 17

High School Student
Novice Programmer

“Sharon Everwood googles regular expressions because she wants to learn all about them. She finds our website and quickly navigates to the start of the tutorial and begins her learning.”

Geographic

Sharon lives in Long Island, NY in a large suburban home with her parents and two dogs. She goes to school at a private magnet school for math and science. She also has a job at the local ice cream shop and volunteers as a lifeguard during the summer. She is a junior in high school and has started to research universities she wants to go to. She has taken a few basic programming classes in high school and even has her own website she built. She hopes to pursue Computer Science at her chosen university.

These are the most thorough personas that I've ever had a group submit. My only suggestion is that a little more information is included about how the users would interact with your site.

Psychographic

Sharon is a pretty soft-spoken person, but she is ready to prove to the world that women can achieve great things in the tech world. She has been a Girl Scout since she was in Kindergarten and it has really empowered her as a young woman. In her free time Sharon loves to volunteer at the local elementary school in an after school program which aims to teach young girls about various topics in math and science. She also loves to swim and has begun to coach young kids at her local swim school. She loves to spend time with her friends and explore the outdoors on weekends. She also really enjoys going into the city with her parents on long weekends and sees herself one day living in Manhattan.

Used Devices/Expertise

Sharon is fairly advanced in her technological expertise, but is still learning some more advanced methods for software and programming usage. She has an iPhone, but doesn't love it. She has a laptop that runs Windows 8, which her father bought for her 16th birthday. She uses her laptop to program her own small projects, keep up her website and watch lots of Netflix. She occasionally plays games, particularly Tomb Raider, but doesn't have as much time for this as she would like. Schoolwork also takes up a portion of her software usage as she is a dedicated student. Sharon uses Facebook and Twitter a fair bit as well to keep in touch with her friends and as her primary news source.

Intermediate Programmers

1 Steve Gates is starting a new job and needs a refresher on material he hasn't used in a while.



2 Bill Jobs never quite understood regular expressions while in school and wants to relearn the material to get a better handle on it.



3 Tom Anderson is putting together a teaching program and wants to go over the basics to figure out the best way to teach this information to beginners.





STEVE GATES, 26

Software Engineer
Intermediate Programmer

“Steve Gates is starting a new job and needs a refresher on material he hasn’t used in a while.”

Geographic

Steve lives in Austin, Texas with his wife and newborn baby. He just started his new job at Dell, after moving from Kansas City, Missouri where he worked at a small startup. His wife and him recently bought their first house in the suburban part of Austin and are excited to settle down in their new home with his baby girl Kelsey. Steve graduated from UT Austin and is looking forward to being back and reconnecting with his college friends as well as give back to the school. He has been in contact with many of his professors, and the Software Engineering department is excited to have him on board as a guest lecturer/adjunct professor for their department.

Psychographic

Steve has always been an outgoing person with a large social network. He has had a lot of life changes in the past few years from getting married to starting a family and his new job. He really wants to make sure he can be the best father to his new baby, as well as push himself to accelerate his career and get a promotion within the next five years. He is very proud of his wife for staying committed to her career in finance while also being a wonderful new mother. Steve is a music lover, and is excited to be back in Austin where he can experience an awesome music scene, and introduce his daughter to his love of music.

Used Devices/Expertise

Steve considers himself fairly advanced in his technological expertise. He loves to experiment with new softwares and hardware, including building his own computers for himself and his wife, and hopefully soon for his daughter. Steve mostly uses his devices to explore his own software development projects as well as collect his music. His main social media platforms is Facebook, but he has also been recently using Instagram more to share pictures of his daughter with friends and family. Steve has a Samsung Galaxy S4 phone and enjoys being able to customize the interface and control some of the usability aspects of his phone. He also recently bought an iPad, mostly for his daughter to watch videos and play games with her.

People in the Industry

2 Just getting hired at Google, Channing Tatum's boss said that "he will be doing a ton of regular expressions." Scared out of his wits, he finds our website and begins going through the lessons quickly trying to gain an elementary knowledge of regex.



3 Lisa Holden is a senior at RIT who is preparing for technical interviews. She is looking to brush up on her regular expression knowledge, from an abstract level, to applications and uses, to how they are implemented.



3 Bruno Mars is a non-technical person, he however was assigned a task at his job where he needs to go through a ton of text and extract phone numbers. Rather than do this manually he googles how he could do this faster and stumbles across regular expressions. He tries to use our site to find out how he can accomplish this.





LISA HOLDEN, 21

College Student
In the Industry

“Lisa Holden is a senior at RIT who is preparing for technical interviews. She is looking to brush up on her regular expression knowledge from an abstract level, to applications and uses, to how they are implemented in the real world.”

Geographic

Lisa is originally from Essex Junction, Vermont. She grew up there with her father, grandparents and her two older brothers. Her family owns a small farm where they raise cattle and she used to be an avid horse-back rider. She is in her final year at Rochester Institute of Technology in Rochester, New York. She has a job on campus as a front desk student employee at the Academic Support Center. She lives on campus in an apartment and drives a Honda Accord 2003, her father gave her in her 3rd year at RIT after he bought himself a new car. She likes being able to explore Rochester now that she does have a car.

Psychographic

Lisa joined a sorority for high-academically achieving women in her sophomore year. She loves her sorority sisters and looks forward to keeping this strong bond throughout her life. She loves having more women in her life, as she grew up with the only woman in her house being her grandmother. Some of Lisa's hobbies include watching movies with her sorority sisters and also painting. Lisa doesn't consider herself too outspoken, but she never gets lost in a crowd. Now that she is 21, she also enjoys exploring some of the nightlife around Rochester, but still makes careful decisions as she likes to make sure she stays healthy and safe with whatever she is doing.

Used Devices/Expertise

Lisa considers herself decently advanced with technology and software. She has learned a lot being in the very techy environment at RIT and has definitely grown a lot in her technological expertise. She has a laptop with Windows 10, which she was able to download free through RIT. Her laptop is not as powerful for a lot of her projects, so she often uses the lab computers at RIT. She has a Droid Turbo phone and is decently satisfied with it. She likes the utility of the phone such as shaking it for a flashlight, and being able to hover her hand over it to turn it on and see the time or notifications.

Users Requiring Accessibility Features

1 Haley Clinton-Dix is a deaf student at RIT and is looking for captioning on videos, she comes to our website to learn regex.



2 Casper McGoo is a legally blind person who is using a screen reader. He comes to our website and is looking for good semantic web profiling and accessibility for the website so that he can learn about regular expressions..



3 John Greene has difficulty with vision and needs a more simplistic interface due to having trouble with the placement of text on other sites.





CASPER MCGOO, 28

Front-End Developer

User Requiring Accessibility Features

“Casper McGoo is a legally blind person who is using a screen reader. He comes to our website and is looking for good semantic web profiling and accessibility for the website so that he can learn about regular expressions”

Geographic

Casper lives in downtown San Francisco and works as Twitter in the Civic Center area. He grew up in the Bay Area and graduated from UC Berkeley with a degree in Computer Science. Both of his parents encouraged Casper to achieve as much as he could, and put him in the California School for the Blind in Fremont, CA from a young age. Casper likes to volunteer at the school whenever he can to help others like him. His girlfriend lives in Oakland and commutes into the city for her job as a lecturer at University of San Francisco. He uses BART frequently to visit her and get around the Bay Area.

Psychographic

Casper loves to meet new people. He is very passionate about food, especially being in San Francisco he enjoys having the unique opportunity to try new foods as well as try out his own recipes. Many of his friends say Casper is a very talented chef and his signature dish is his seafood paella. Casper also has a guide dog named Florence who has become his favorite companion. The two of them love exploring all around San Francisco, their favorite place is near the Presidio, where they can walk along the water and enjoy the nice breeze coming from the bay.

Used Devices/Expertise

Casper is very proud of his technological expertise especially as a blind person. He has even developed, along with some of his friends, programs to help him use computers and phones much more easily. His main device is his MacBook Pro 2014 which he received from his job. It is well equipped with accessibility and reading software that helps him use it for work, as well as listening to music and keep up with political news which he follows religiously. Casper has a special smartphone designed specifically for blind people, the Ray N5. After much trouble with other phones he is excited to be able to use this new phone which is much more friendly to him.

Way

Learn Regex The Hard Way

This is an in-progress book that quickly teaches you regular expressions.

Table Of Contents

- Preface
- Introduction: Giants In Tiny Pants
- Exercise 0: The Setup
- Exercise 1: Your First Regex
- Exercise 2: Finding Specific Strings
- Exercise 3: Matching Any Character
- Exercise 4: Matching Sets Of Characters
- Exercise 5: Inverting Sets Of Characters
- Exercise 6: Translating Simple Regex
- Exercise 7: The Beginning And End
- Exercise 8: Optional Elements
- Exercise 9: Repetition, Repetition
- Exercise 10: Frugality In All Things
- Exercise 11: This Or That
- Exercise 12: Translating Complex Regex
- Exercise 13: Escaping Things
- Exercise 14: Escape Sequences You May Need
- Exercise 15: Grouping And Captures
- Exercise 16: Search And Replace
- Exercise 17: The Limits Of Regular Expressions
- Exercise 18: Useful Extensions
- Exercise 19: Verbose Regex With Comments
- Exercise 20: Named Captures
- Exercise 21: Extensions To Avoid
- Exercise 22: Translating Insane Regex
- Exercise 23: Memorize Your Symbology

Python Ruby C SQL



Frequently Asked Questions

How long does this book take?
You can work through it in a week to get through it, but focus on doing work every day. Some people take about 3 months, others 6 months, and some only a week.

What kind of computer do I need?
You will need either an OSX, Windows or Linux computer to complete this book.

regex.learncodethehardway.org/book

Description: *This is an in-progress book that quickly teaches you regular expressions.*

Pro

- Differentiates between different languages

Con

- No global nav between lessons
- Cannot navigate from one lesson to the next

Regular Expression Library

Competitive Analysis

The screenshot shows the homepage of RegExLib.com. At the top, there's a navigation bar with links for Home, Search, Regex Tester, Browse Expressions, Add Regex, and Login. Below the navigation is a 'Subscribe' section with a button for recent expressions (11 readers) and a 'Site Links' sidebar with links like Regex Cheat Sheet, Search, Regex Tester, etc. The main content area includes a 'Find Expressions' search bar, a 'Regex Resources' section with a 'Regex Tester' link, and a 'Latest News' section about RegexAdvice.com. A 'Top Contributors' sidebar lists users like Michael Ash, Steven Smith, and Matthew Harris.

This screenshot shows the 'Test Your Regular Expressions' tool. It has sections for 'Select Regex Engine' (.NET Engine), 'Current Options' (Case Insensitive, Multiline selected, Ignore Whitespace in Expression, Explicit Capture), and 'Regex Input' for 'External Data Source' (URL and File fields, Load Data Source button), 'Source' (text area), and 'Regular Expression' (text area).

regexlib.com/

Description: Currently we have indexed 5156 expressions from 2335 contributors around the world. We hope you'll find this site useful and come back whenever you need help writing an expression, you're looking for an expression for a particular task, or are ready to contribute new expressions you've just figured out.

Pro

- Live regex testing

Con

- Confusing layout
- Community driven content
- Unintuitive navigation

The screenshot shows the homepage of Regular-Expression.info. At the top, there's a navigation bar with links for Quick Start, Tutorial, Tools & Languages, Examples, Reference, and Book Reviews. Below the navigation is a large banner with the site's name. On the left, there's a sidebar titled "Regex Tutorial" containing a list of topics: Introduction, Table of Contents, Special Characters, Non-Printable Characters, Regex Engine Internals, Character Classes, Character Class Subtraction, Character Class Intersection, Shorthand Character Classes, Dot, Anchors, Word Boundaries, Alternation, Optional Items, Repetition, Grouping & Capturing, Backreferences, and Backreferences, part 2. In the center, there's a section about RegexBuddy with a screenshot of the software and a brief description. Below this is the "Regular Expressions Tutorial" section with the heading "Learn How to Use and Get The Most out of Regular Expressions". It contains two paragraphs of text and a "What Regular Expressions Are Exactly - Terminology" section with a paragraph of text.

regular-expressions.info

Description: This tutorial teaches you all you need to know to be able to craft powerful time-saving regular expressions. It starts with the most basic concepts, so that you can follow this tutorial even if you know nothing at all about regular expressions yet.

Pro

- Cheat Sheet
- Guide to regex tools

Con

- Cannot attempt your own code on the website to practice

The screenshot shows a web page with a header "RegexOne" and a sub-header "Learn Regular Expressions with simple, interactive exercises." Below the header, there's a section titled "Lesson 1: An Introduction, and the ABCs". A text block explains the usefulness of regular expressions in extracting information from various sources like code, log files, spreadsheets, and documents. It highlights that everything is essentially a character and provides examples of matching specific sequences. Below this, there's a "Task" table showing matches for different patterns against sample text. At the bottom, there's a text input field for users to type their own pattern and a "Continue" button.

Lesson Notes

abc...	<i>Letters</i>
123...	<i>Digits</i>
\d	<i>Any Digit</i>
\D	<i>Any Non-digit character</i>
.	<i>Any Character</i>
\.	<i>Period</i>
[abc]	<i>Only a, b, or c</i>
[^abc]	<i>Not a, b, nor c</i>
[a-z]	<i>Characters a to z</i>
[0-9]	<i>Numbers 0 to 9</i>
\w	<i>Any Alphanumeric character</i>
\W	<i>Any Non-alphanumeric character</i>
{m}	<i>m Repetitions</i>
{m,n}	<i>m to n Repetitions</i>
*	<i>Zero or more repetitions</i>
+	<i>One or more repetitions</i>
?	<i>Optional character</i>
\s	<i>Any Whitespace</i>
\S	<i>Any Non-whitespace character</i>
^...\$	<i>Starts and ends</i>
(...)	<i>Capture Group</i>
(a bc)	<i>Capture Sub-group</i>
(.)	<i>Capture all</i>
(abc def)	<i>Matches abc or def</i>

regexone.com

Description:

Regular expressions are extremely useful in extracting information from text such as code, log files, spreadsheets, or even documents. And while there is a lot of theory behind formal languages, the following lessons and examples will explore the more practical uses of regular expressions so that you can use them as quickly as possible.

Pro

- Divided by languages

Con

- No user login

- Language guide

The screenshot shows the RegExr v2.1 interface. On the left is a sidebar with links to Library, Help, Reference, Cheatsheet, Examples, Community, and Favourites. Below this is a brief description of what RegExr is. A list of keyboard shortcuts follows. The main area has tabs for Expression and Text. The Expression tab contains the regular expression `/([A-Z])\w+/g`. The Text tab contains sample text with matches highlighted in blue. At the bottom are buttons for Tools, Replace, List, Details, Explain, and a plus sign icon.

regexr.com

Description: *RegExr is an online tool to learn, build, & test Regular Expressions.*

Pro

- *Responsive testing*

- *Video lessons*

Con

- *Navigation is not intuitive*

Ryan's Tutorials: Regular Expressions

Competitive Analysis

The screenshot shows a web browser window with the title 'Ryans Tutorials' and 'Regular Expressions Tutorial'. The main content area features a large orange header with the text 'Regular Expressions!' and a magnifying glass icon. Below this, the text 'What the ^.(4)\$.' is displayed. To the right is a sidebar titled 'SECTION BREAKDOWN' containing links to 'Introduction', 'Outline', 'Where and How', 'Learning Regular Expressions', 'NEXT SECTION', and 'Regular Expressions Basics'. The main content area also contains sections for 'Introduction' and 'What the ^.(4)\$.', followed by a list of applications for regular expressions.

Introduction

The following pages are intended to give you a solid foundation in how to write regular expressions (Also referred to as regex or RE's). A regular expression is a means for describing a particular pattern of characters of text.

That's kinda a bit abstract so let's try to put it into perspective. With regular expressions you can:

- **Search** for particular items within a large body of text. eg. You may wish to identify all email addresses in some content using a text editor.
- **Replace** particular items. eg. You may wish to clean up some poorly formatted HTML by replacing all uppercase tags with lowercase equivalents in a text editor.
- **Validate** input. eg. You may want to check that a password meets certain criteria such as, a mix of uppercase and lowercase, digits and punctuation etc in a program you are writing.
- **Coordinate** actions. eg. You may wish to process certain files in a directory, but only if they meet particular conditions, in work you are doing on the command line.
- **Reformat** text. eg. You may export data from one program as a text file then modify its layout so you may import it into another program using a text editor.
- and more...

ryanstutorials.net/regular-expressions-tutorial

Description: This tutorial is intended to give you a solid foundation in how to write regular expressions. A regular expression is a means for describing a particular pattern of characters of text.

Pro

- Good text content

Con

- Confusing layout and poor typography choices.

Learn Regular Expressions in 20 Minutes

Martin Angelov December 11th, 2014



You run into a problem and decide to use a regular expression. Now you have two problems. Or at least this is how the saying goes. Regular expressions are a powerful tool that skillful coders leave as a last resort, but when they do use it, they strike terror in the hearts of their enemies (and colleagues).

Regular expressions (or regex-es, as is the correct term for what we use in programming languages today) are specialized languages for defining pattern matching rules for text. They have their own grammar and syntax rules, which every beginner gets wrong. But you don't have to! Here is what you need to know:

100 Must Know jQuery Tips and Tricks

jQuery Trickshot is our free book, filled with kick-ass tips and tricks for jQuery that every developer should know.

[DOWNLOAD IT](#)

1. Matching a single character

Every programming language has a way of defining and using regular expressions. They have some differences, but the basics which are covered in this article should work anywhere. The examples here are written in JavaScript, so that you can try them out in your browser.

```
JS
1 var text = 'Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec convallis dignissim
2
3 // Will match both "elit" and "elat". The dot can match any character.
4 // Tip: try removing the "g" modifier of the regex to see what happens.
5
6 var regex = /el.t/g;
7
8 console.log( text.match(regex) );
9
10
11 // Will match both "est" and "lest". The question mark makes "l" optional.
12
13 var regex2 = /l?est/g;
14
15 console.log( text.match(regex2) );
```

tutorialzine.com/2014/12/learn-regular-expressions-in-20-minutes

Description: You run into a problem and decide to use a regular expression. Now you have two problems. Or at least this is how the saying goes. Regular expressions are a powerful tool that skillful coders leave as a last resort, but when they do use it, they strike terror in the hearts of their enemies (and colleagues).

Pro

- Inline code editor to test and code regex

Con

- Blog article, not focused on returning users

The screenshot shows the homepage of rexegg.com. At the top, there's a search bar containing a complex regex pattern: `^(?>([^\e])(.*?((?1))))(\w{2})$ → \1\4\2\3`. Below the search bar is a large orange T-Rex logo and the site's name "REX EGG". To the right of the logo is the tagline "The world's most tyrannosauirical regex tutorial". A navigation bar at the top includes links for "Fundamentals", "Black Belt Program", "Regex in Action", "Humor & More", and "Ask Rex". On the left side, there's a sidebar with a vertical list of links under "Fundamentals": "Fundamentals", "Regex Tutorial", "Regex vs. Regex", "Quick Reference", "100 Uses for Regex", "Regex Style Guide", "Black Belt Program", "All (? ...) Syntax", "Boundaries++", "Anchors", "Capture & Back", "Flags & Modifiers", "Lookarounds", "Quantifiers", "Explosive Quantifiers", "Conditionals", "Recursion", "Class Operations", "Backtracking Control", and "Regex Gotchas". The main content area features a large heading "Rex Eats Regular Expressions for Breakfast". Below the heading is a "PROTECTED BY COPYSCAPE DO NOT COPY" watermark. The page content discusses regular expressions and includes several code snippets and examples.

rexegg.com

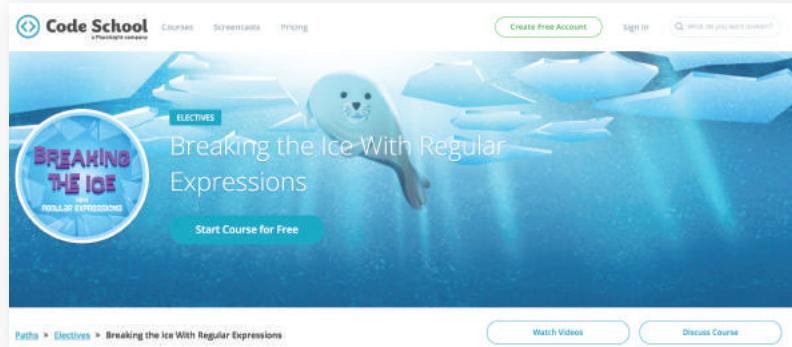
Description: *Rex eats regular expressions for breakfast. And so can you! This regex tutorial, one of the most detailed on the web, takes you all the way to mastery.*

Pro

- Dense information & references for regexs

Con

- Site layout is uninviting, dark themes
- Doesn't have a clear starting point



COURSE OVERVIEW

LEVEL	NAME	VIDEOS	CHALLENGES
1	The String Story	2 Videos	9 Challenges
2	Crew Emails	1 Video	7 Challenges
3	Confirmative	2 Videos	9 Challenges
4	Multi-line Strings	1 Video	5 Challenges
5	Capture Groups	1 Video	6 Challenges

LEVEL 1 | FREE LEVEL
The String Story 2 Videos | 9 Challenges
Learn what regular expressions are, and write your first expression. Discover literals, operators, character sets, modifiers, and metacharacters.

LEVEL 2
Crew Emails 1 Video | 7 Challenges
Journey into validating emails with wildcards, escaping characters, groups, and anchors.

LEVEL 3
Confirmative 2 Videos | 9 Challenges
Take a voyage to the edge with word boundaries and creating optional variations. Negate characters within character sets, and then use the negated shorthand. Finally, match specific amounts of characters with interval expressions.

LEVEL 4
Multi-line Strings 1 Video | 5 Challenges
Discover multi-line strings, and journey deeper with much larger subject strings. Search the globe and properly drop anchors with global and multi-line modifiers.

LEVEL 5
Capture Groups 1 Video | 6 Challenges
Grab the loot with capture groups, and learn how to extract sections of text

codeschool.com/courses/breaking-the-ice-with-regular-expressions

Description: *Search for text patterns using regular expressions and learn to validate emails and URLs, capture information, and use simple patterns to save development time.*

Pro

- Intuitive layout
- Level system for difficulty

Con

- Need a subscription to begin the course.

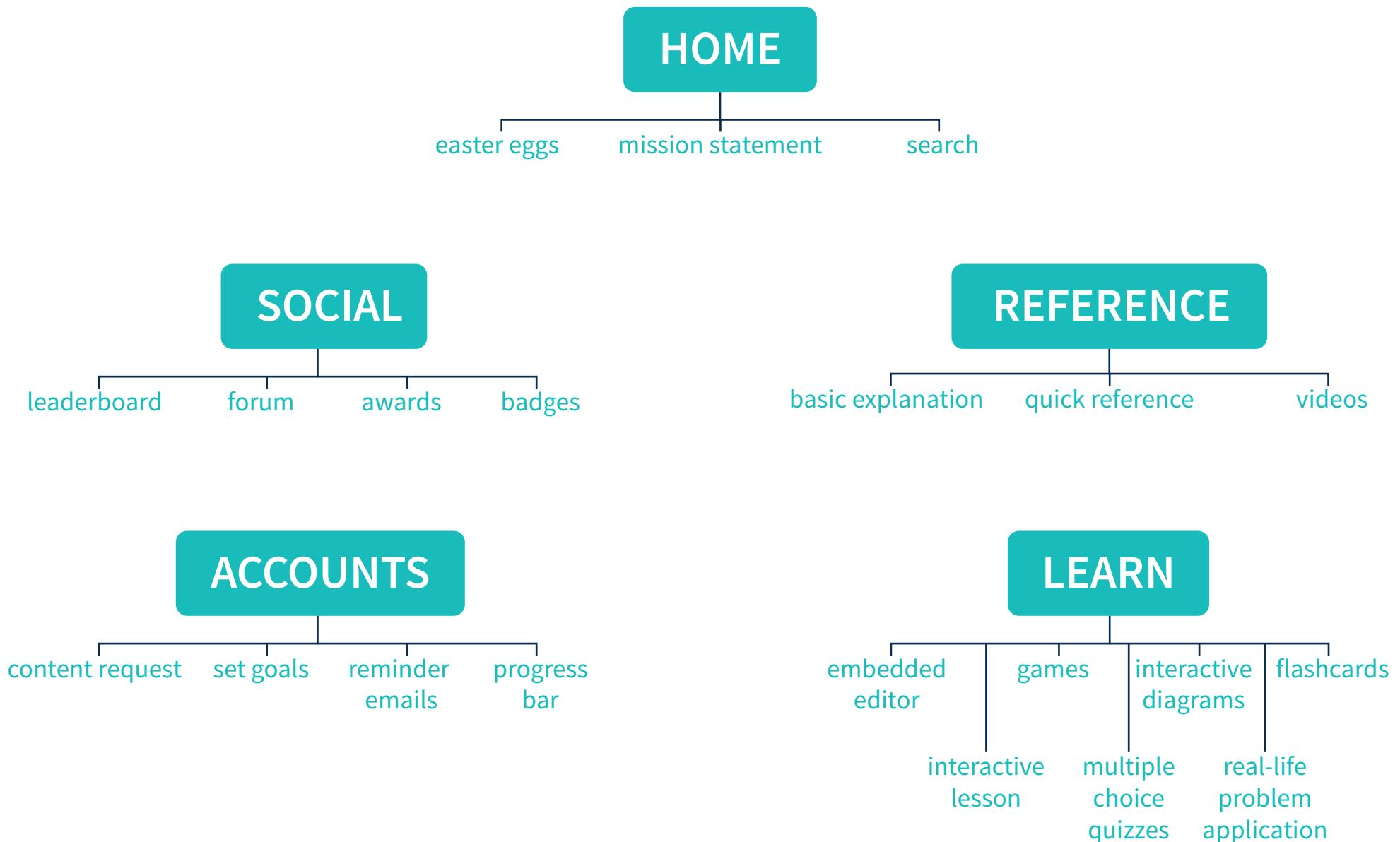
Competitive Analysis Grid

Competitive Analysis

Website	General Design	Personalization	Technology	Grand Total
regexlib.com	17	5	1	23
regular-expressions.info /tutorial.html	20	6	2	28
regexpr.com	25	5	2	32
ryanstutorial.net /regular-expressions-tutorial	28	4	1	33
ryanstutorial.net /regular-expressions-tutorial	26	8	1	35
rexegg.com	24	11	1	36
codeschool.com/courses /breaking-the-ice-with-regular-expressions	27	7	2	36
regexone.com	30	7	2	39
tutorialzine.com/2014/12 /learn-regular-expressions-in-20-minutes	32	7	3	42
khanacademy.org	36	13	3	52
Grand Total	256	73	18	356

Content Grouping

Site Content



Functional Requirements

Site Content

Static Content

- *Splash Page*
- *Copyright Notice*
- *License (Footer)*
- *Privacy Statement (Footer)*
- *Overview of Lesson Page*
- *About Us Page*
- *Cheatsheat Page*
- *Basic Reference Page*
- *Videos (Learn Page)*
- *Reminder Emails*
- *Git Clone Page*
- *Local Nav Bar for Lessen Progress*
- *Donation Page*
- *Tools/Language Specific Page*
- *Mission Statement (Splash Page)*

Dynamic Content

- *Profile Page*
- *Refresher Content*
- *Badges Page*
- *Individual Lessons*
- *Inline Code Editor*
- *Goals (Profile Page)*
- *Progress Bar (Profile Page)*
- *Multiple Choice Questions*
- *Member Log-on Page*
- *Forum Page*
- *Register Page*
- *Leaderboard Page*
- *Community Submitted Content*

Functional Content

- **Users**
 - Username*
 - Password*
 - Email*
 - Progress*
 - Badges*
 - Goals*
 - Posts*
- **Forum Posts**
 - PostID*
 - CreatedBy*
 - Text*
 - Upvote/Star/Karma*
 - Replies*
- **Lessons**
 - Videos*
 - Text*
 - Title*
 - Quizzes*
- **Badge**
 - Name*
 - Picture*
- **Quizzes**
 - ID(unique)*
 - Name*
- **QuestionID(unique)**
 - Answer1*
 - Answer2*
 - Answer3*
 - Answer4*
 - CorrectAnswer*
 - FeedbackForWrongAnswer*
 - QuizID*

Splash Page

Login
Sign Up
User Agreement
About IrregEx
Mission Statement

Header

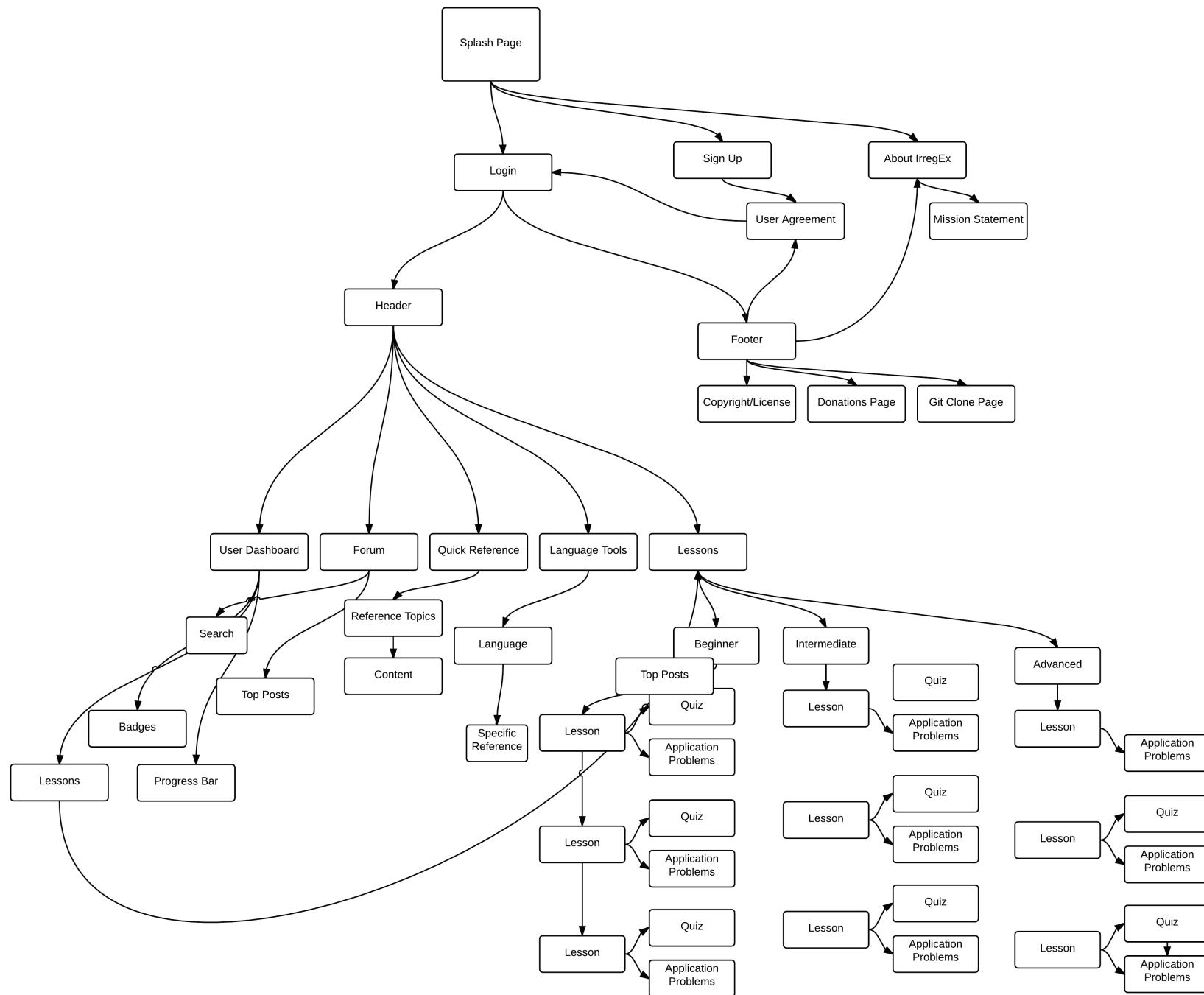
User Dashboard
Badges
Lessons
Progress Bar
Forum
Search
Top Posts
Quick Reference
Reference Topics
Content
Language Tools
Language
Specific Reference
Lessons
Beginner
Quiz
Application Problem
Intermediate
Quiz
Application Problem
Advanced
Quiz
Application Problem

Footer

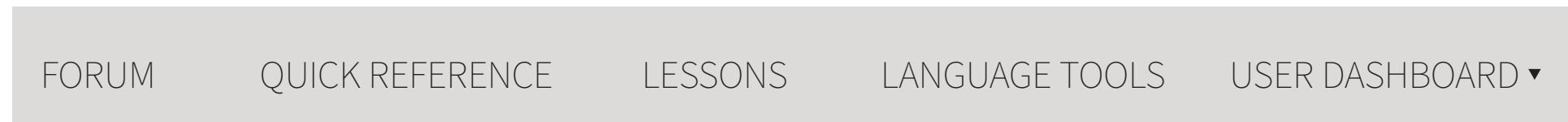
Copyright/License
Donations Page
Git Clone Page
User Agreement
About IrregEx

Architectural Blueprint

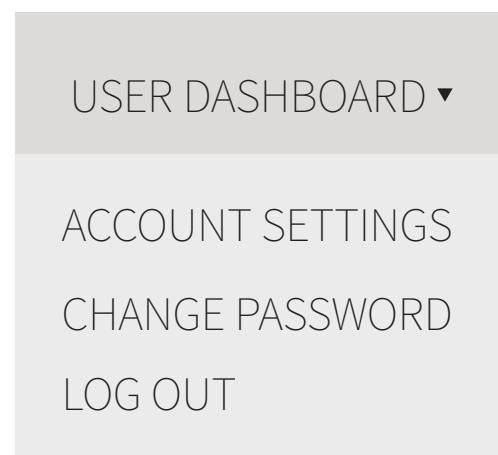
Site Structure



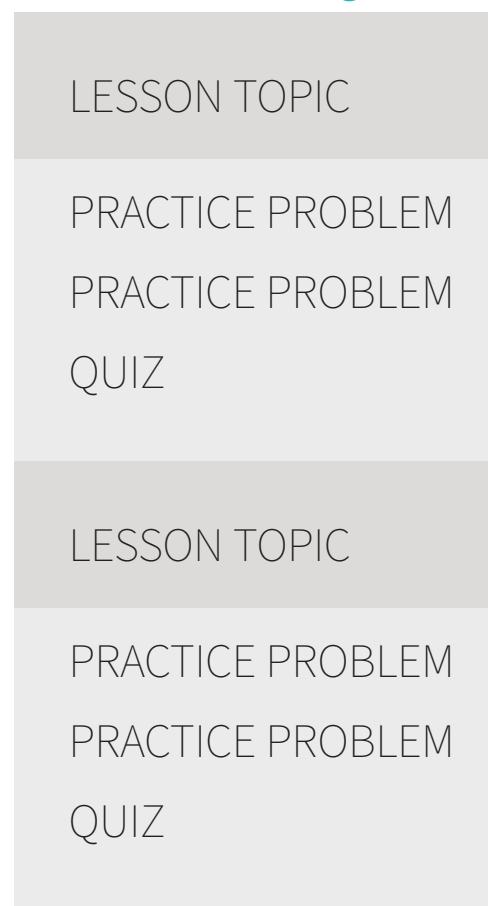
Global Navigation



User Dashboard Sub-Menu

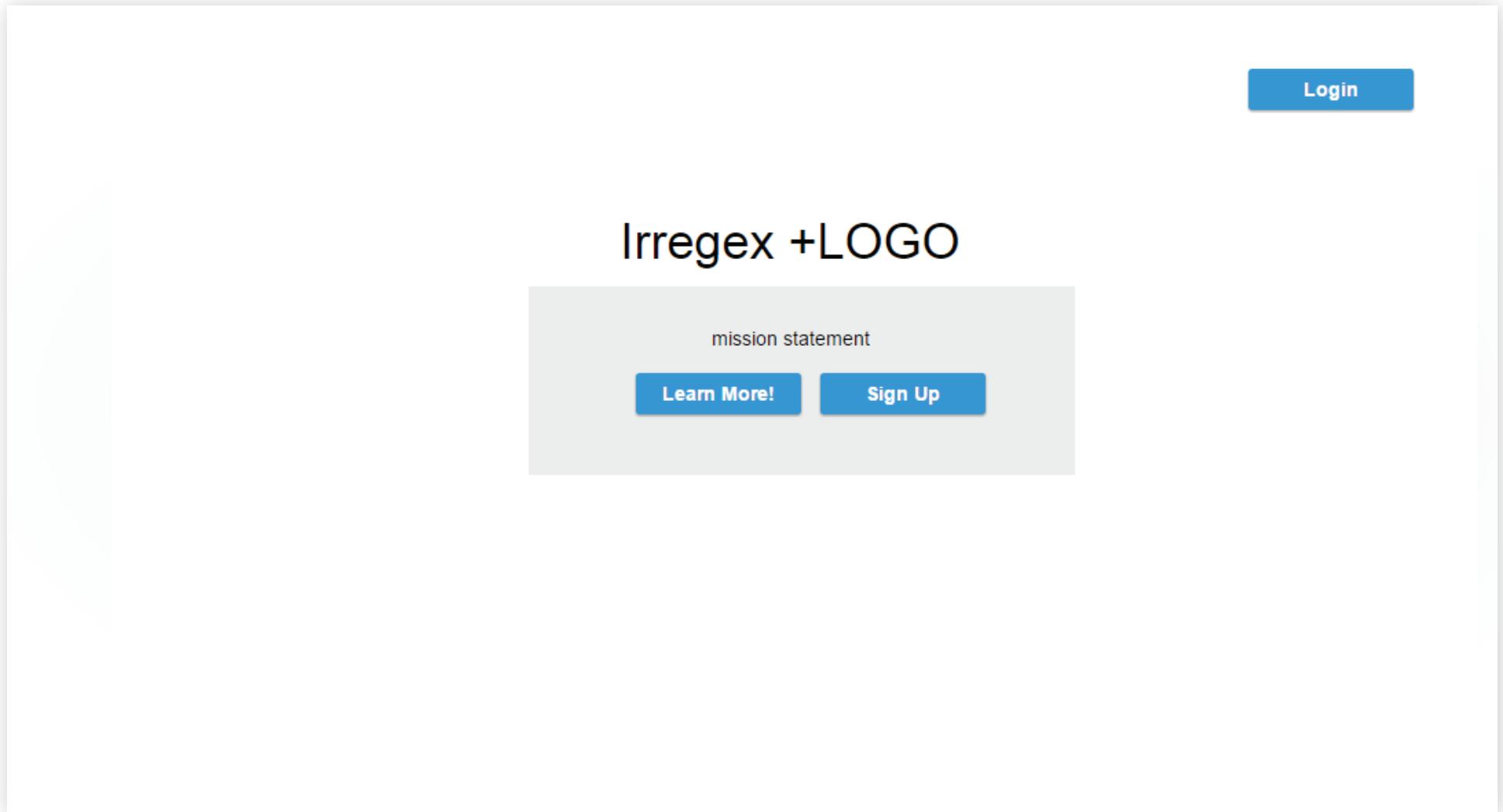


Lessons Side Navigation



Quick Reference Side Navigation





Splash Page

This is the page the user will be directed to when they first land on the website. It will include a mission statement about the website and encourage them to sign up or learn more. If the user already has an account they will log in from this page.

Layout Grids

Visual Design

Irregex +LOGO

Forum Quick Reference Language Tools Lessons UserName ▾

Continue "Lesson Name"

Progress

Badges

UserName's Forum Posts

Post Title ③ post content.....

Post Title ① post content.....

User Profile/Home Dashboard

Once the user has logged in they will be taken to their profile page which will act as a “dashboard.” From here they will be encouraged to continue the lesson they are working on, or start a new lesson. They will be shown badges they have earned and their most recent forum posts.

The screenshot displays a website layout with a sidebar on the left and a main content area on the right. The sidebar is blue and contains a list of topics and subtopics. The main content area has a search bar at the top and a large empty box below it labeled 'Reference Title'. The bottom of the page has a footer bar.

Irregex +LOGO

Dashboard Quick Reference Leaderboard Lessons UserName ▾

Topic1
Subtopic1
Subtopic2
Subtopic3

Topic1
Subtopic1
Subtopic2
Subtopic3

Topic1
Subtopic1
Subtopic2
Subtopic3

Topic1
Subtopic1
Subtopic2
Subtopic3
Subtopic4
Subtopic5
Subtopic6

Topic1
Subtopic1
Subtopic2
Subtopic3

Search

Reference Title

Standard website

Quick Reference

This is the quick reference page where the user can quickly search or select from a variety of topics if they are simply looking for a dictionary-reference type answer for a problem.

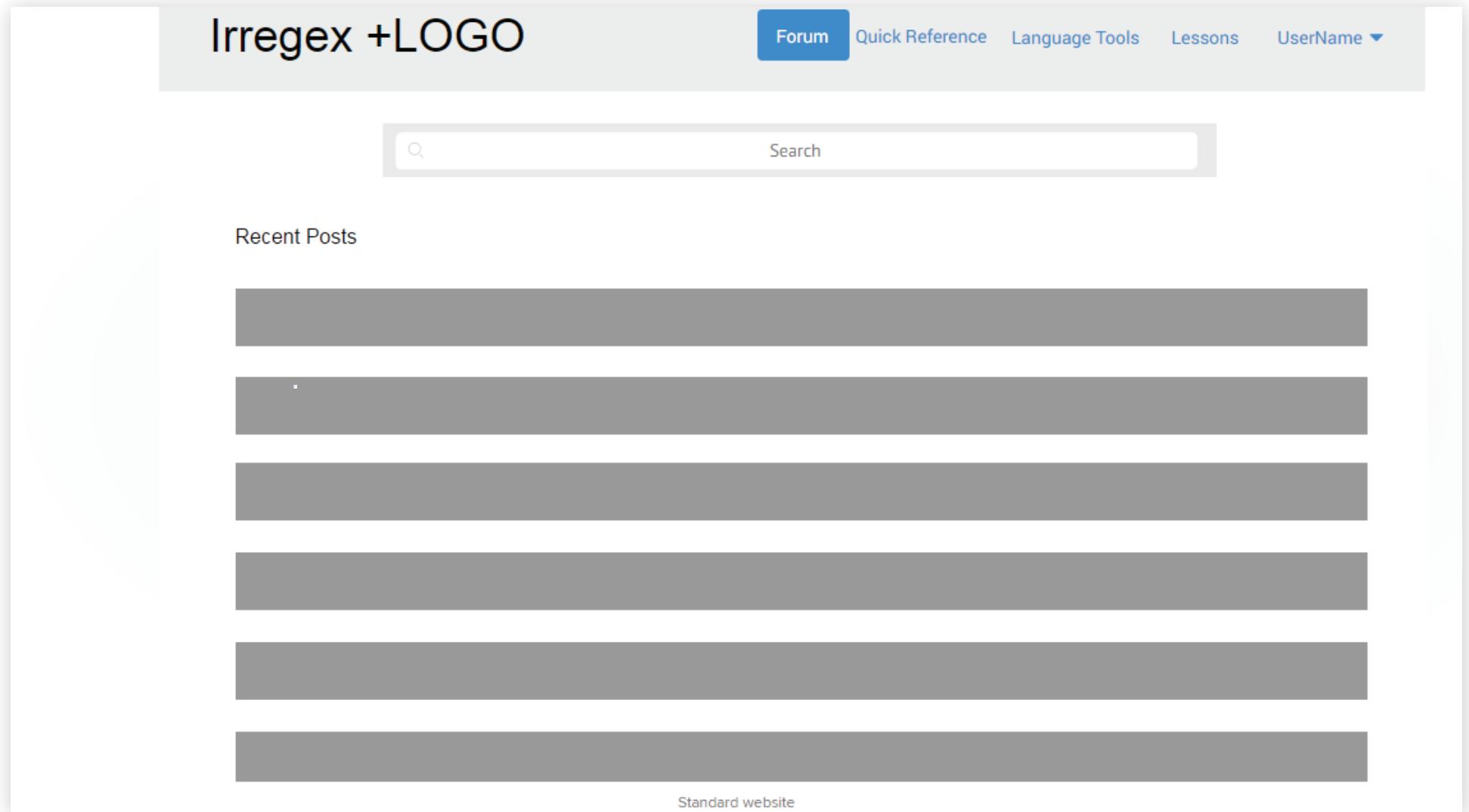
The image shows a wireframe of a web application interface. At the top, there's a header bar with a logo on the left and navigation links: Dashboard, Quick Reference (highlighted in blue), Leaderboard, Lessons, and UserName. Below the header, the main content area has a title "Language Title" and a large gray placeholder box. To the left, there's a sidebar with a blue background containing a list of languages: Language1, Language2, Language3, Language4, Language5, Language6, and Language7. At the bottom of the main content area, it says "Standard website".

Language Tools

Here the user will be provided with specific regular expression details pertaining to a particular programming language. They will be able to select from a range of languages and be provided with mostly static reference content.

Layout Grids

Visual Design



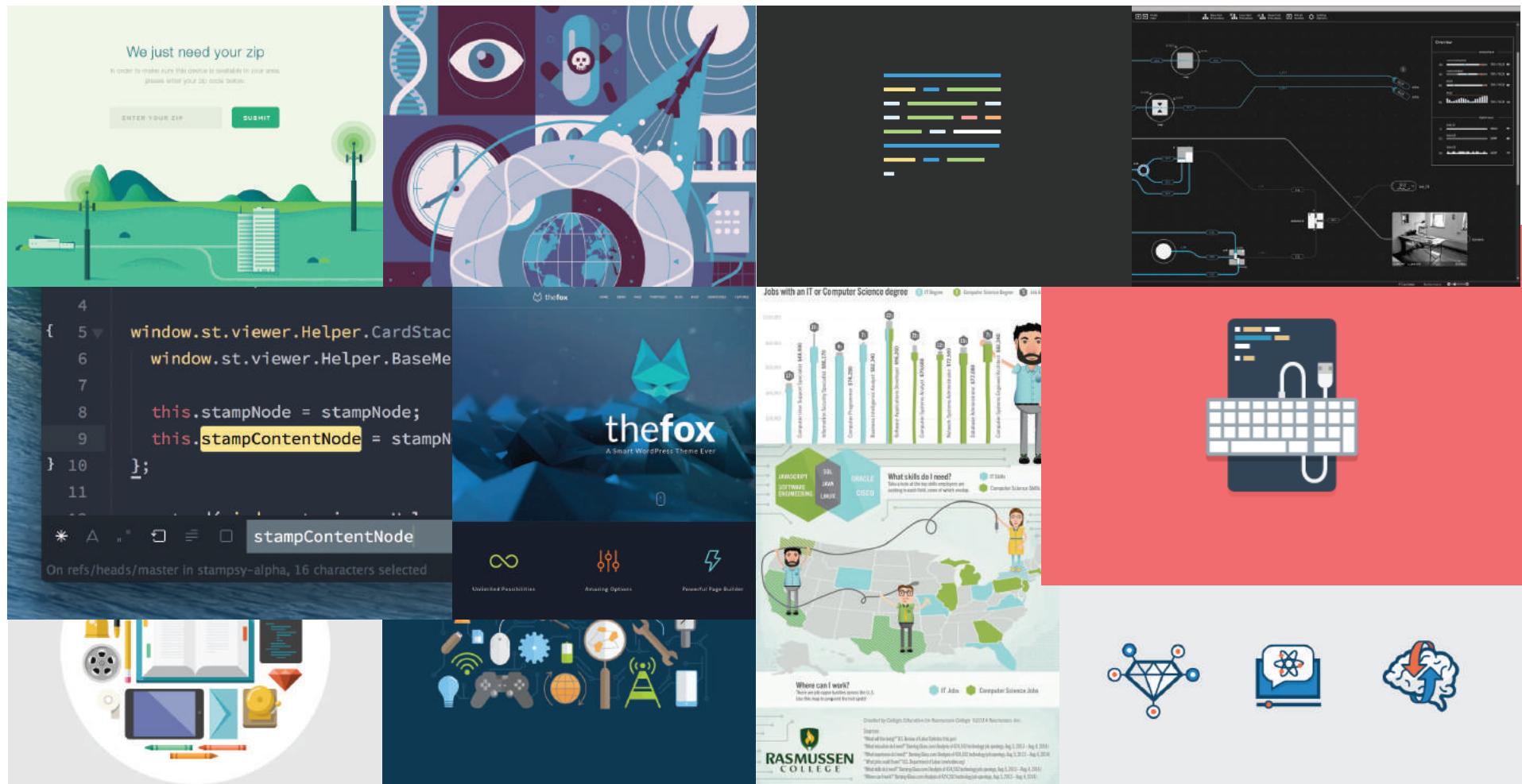
Forum

On this page, the user can create forum posts, respond to forum posts or search if they have a particular problem they are having trouble with. This page is meant to encourage a sense of community between all users.

Moodboard

Visual Design

The general style for our website will be very **clean**, with a **bright color** palette. The website should feel **fresh** and **engaging** while still maintaining a **professional** tone.



Color Palatte

Visual Design



#19BBBC
R25 G187 B188



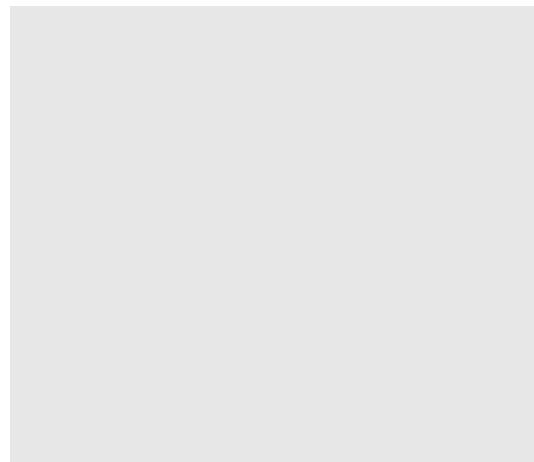
#0E2D4E
R14 G45 B78



#F6DE8A
R246 G222 B138



#FFFFFF
R255 G255 B255



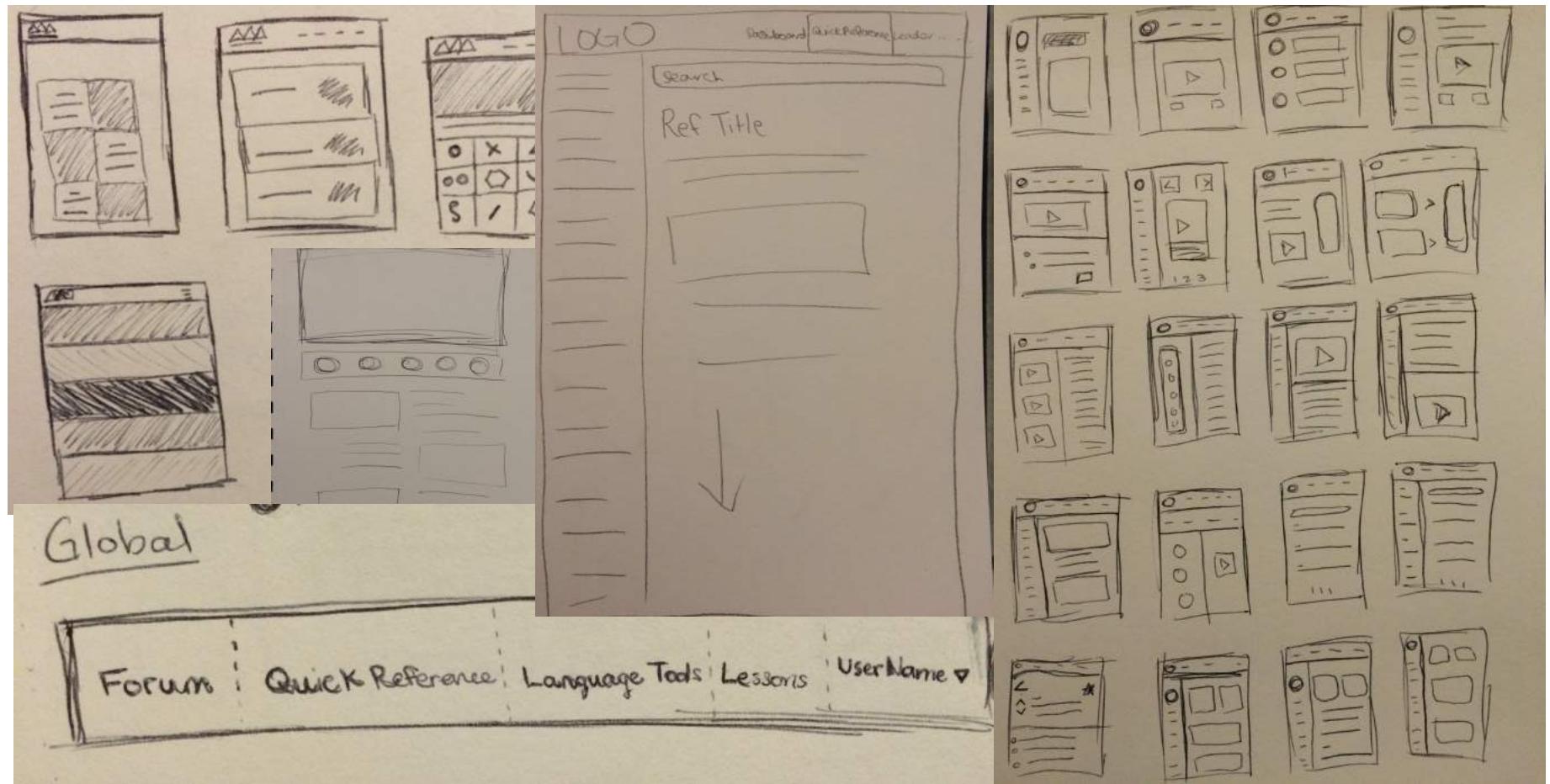
#E5E5E5
R229 G229 B229



#2F2F2F
R47 G47 B47

Design Sketches

Visual Design



The image shows a splash page for a website called IrregEx. The background features a repeating pattern of small icons related to technology and communication, such as mobile phones, keyboards, and globes. The main content area is a white rectangle containing the IrregEx logo, which consists of three overlapping 3D-style rectangles in teal, yellow, and dark blue. Below the logo, the word "IrregEx" is written in a bold, sans-serif font. A paragraph of text below the title reads: "We strive to provide a simple, concise way for students of any level to learn about regular expressions through videos, games, practice problems and more!" At the bottom of the white area are two buttons: "LEARN MORE" on the left and "SIGN UP" on the right, both in white text on teal backgrounds. In the top right corner of the white area, there is a smaller teal button with the text "LOG IN". At the very bottom center of the page, there is a small copyright notice: "Copyright 2016".

Splash Page

This is the page the user will be directed to when they first land on the website. It will include a mission statement about the website and encourage them to sign up or learn more. If the user already has an account they will log in from this page.

IrregEx

FORUM QUICK REFERENCE LANGUAGE TOOLS LESSONS JANE DOE

RECENT FORUM POSTS

Forum Post Title
submitted today, Feb 20, 2016
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est.

12 comments [View](#)

Forum Post Title
submitted today, Feb 20, 2016
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est.

4 comments [View](#)

Forum Post Title
submitted today, Feb 20, 2016
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est.

20 comments [View](#)

Forum Post Title
submitted today, Feb 20, 2016
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est.

2 comments [View](#)

Forum Post Title
submitted today, Feb 20, 2016
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est.

2 comments [View](#)

Forum Post Title
submitted today, Feb 20, 2016
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est.

2 comments [View](#)

1 2 3 4 5 6

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% 1(800) 555 - 1234
info@irregex.com

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Forum

On this page, the user can create forum posts, respond to forum posts or search if they have a particular problem they are having trouble with. This page is meant to encourage a sense of community between all users.

The mockup shows the IrregEx user profile dashboard. At the top, there's a navigation bar with links for Forum, Quick Reference, Language Tools, Lessons, and a dropdown for 'JANE DOE'. Below the navigation is a 'Lesson Progress' section for 'BEGINNING REGEX CLASS: Lesson: Character Classes', showing a 50% completion bar and a 'CONTINUE LESSON' button. To the right is a 'BADGE PROGRESS' grid with colored circles representing different achievement levels. The main content area displays four recent forum posts, each with a title, a snippet of text, a 'Comments' link, and a 'View' link. A 'VIEW MORE ▾' button is located at the bottom of the post list.

BEGINNING REGEX CLASS:
Lesson: Character Classes
CONTINUE LESSON ▾

Lesson Progress
50%

Badge Progress

RECENT FORUM POSTS

Forum Post Title
Submitted Today, 1 hr ago
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est.

2 comments View ▾

Forum Post Title
Submitted Yesterday, 1 day ago
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est.

2 comments View ▾

Forum Post Title
Submitted Yesterday, 1 day ago
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est.

2 comments View ▾

Forum Post Title
Submitted Yesterday, 1 day ago
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est.

2 comments View ▾

VIEW MORE ▾

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Contact Us

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Subscriptions

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info@irregex.com

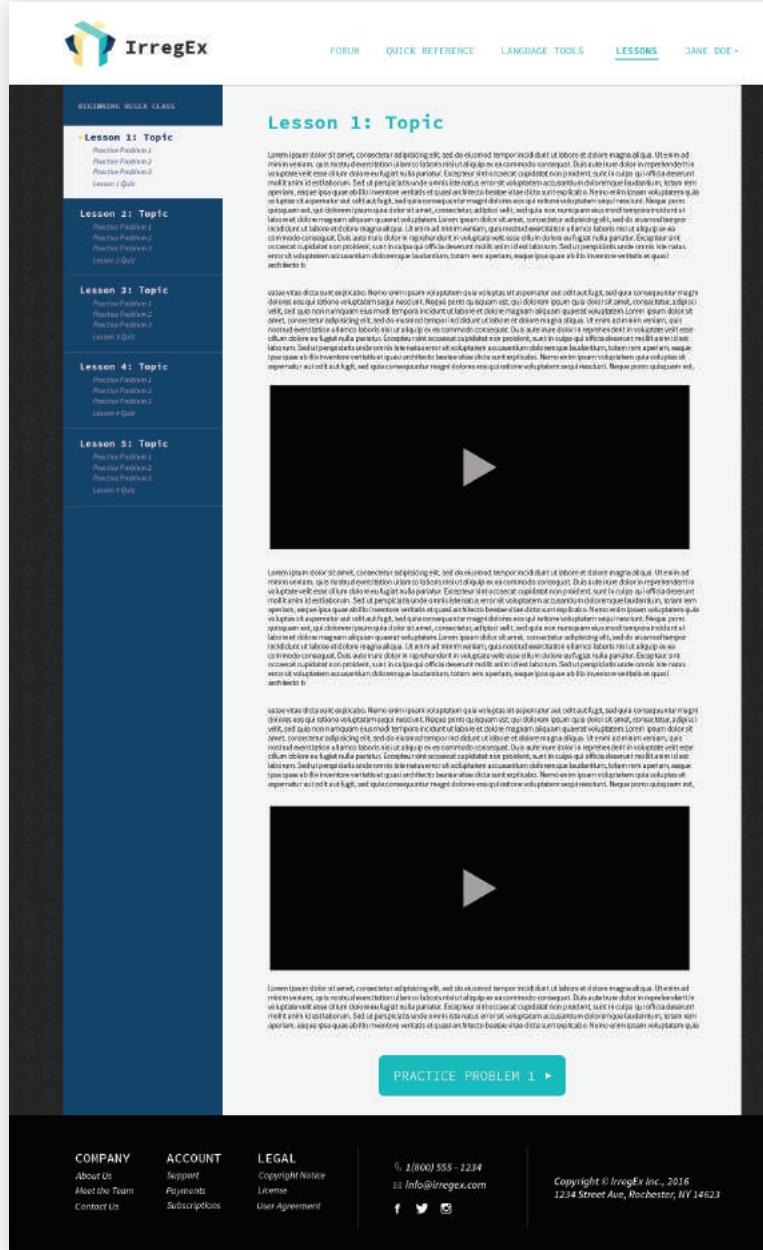
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1234 Street Ave, Rochester, NY 14623

User Profile/Home Dashboard

Once the user has logged in they will be taken to their profile page which will act as a “dashboard.” From here they will be encouraged to continue the lesson they are working on, or start a new lesson. They will be shown badges they have earned and their most recent forum posts.

Page Mockups

Visual Design



Lessons

This will be the main page the user will be directed to when they are taking a “class” where they will have lessons based on what level they are. The content will include text videos and practice problems as well as quizzes.