Requirements Gathering

Author	John Gomez Carvajal
Intended Audience	Anyone involved in the creation, modification or replacement of graphical components belonging to EBI groups.
Use	The document contains a form that should be completed. The form within the document is intended to gather all the graphical components requirements for representing biological information on the web.
Keywords	biojs, requirements, questionaire

Reference	Date	Last Reviewed	Description	Version
BIOJS_082011_01	09/08/ 2011	09/08/2011	Initial draft	1.0

1. Sequence

High level details

1	Component name?	Sequence
2	What kind of multimedia should it show?	Text
3	What pattern must be used? (i.e. text, tree, table, canvas, accordion)	Text area
4	Size?	Default: 200 x 300 Min: 0 x 0 Max: 800 x 600 Resizable: Yes

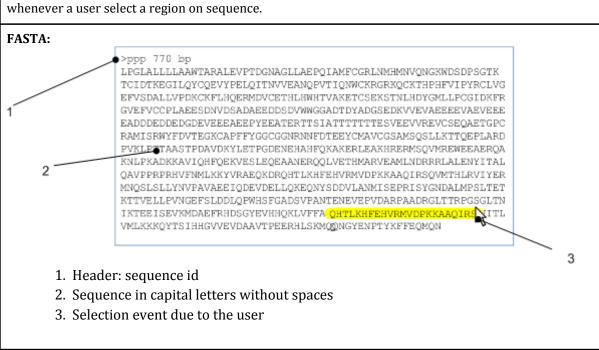
Style issues

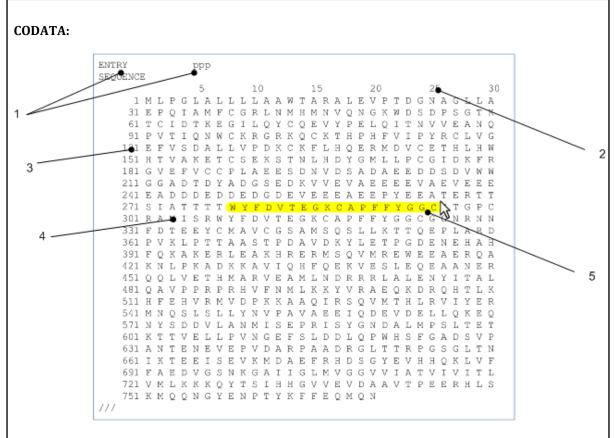
Colors					
	Name	Default	Description		
	defaultFontColor	Black			
	defaultBackgroundColor	White			
	selectionFontColor	Black			
	selectionBackgroundColor	Yellow			
	highlightFontColor	Red			
	highlightBackgroundColor	White			
Fonts?					
	Name	Default			
	defaultFont	Courrier New			
Icons?	None				

How to draw it?

Please draw a detailed sketch for the component (note that it would be a drawing on paper). Feel free to describe the relevant information.

There are different formats that can be used to display a sequence: FASTA, CODATA, RAW and PRIDE. All of them must raise an *onSelectionChanged* or *onSelectionChange* (detailed in Events section) whenever a user select a region on sequence.





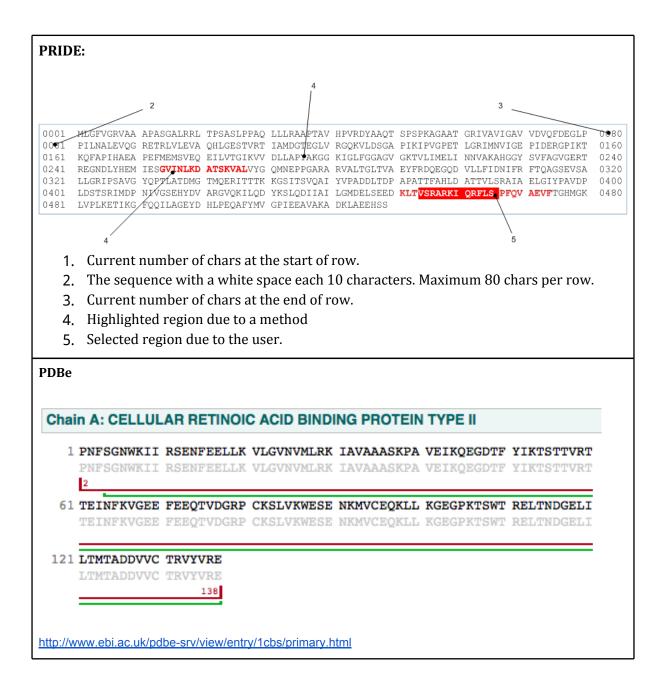
- 1. Header: sequence id
- 2. Horizontal enumeration. It must appear on the top of sequence, counting each 5 chars.
- 3. Vertical enumeration. It must appear at the beginning of each row, indicating the number of characters before of the current row plus one.
- 4. Sequence in capital letters, separated by a space. Maximum of 30 characters per row
- 5. Selection event due to the user

RAW:

mlpglallllaawtaralevptdgnagllaepqiamfcgrlnmhmnvqngkwdsdpsgtktcidtkegilqycqevypel qitnvveanqpvtiqnwckrgrkqckthphfvipyrclvgefvsdallvpdkckflhqermdvcethlhwhtvaketose kstnlhdygmllpcgidkfrgvefvccplaeesdnvdsadaeeddsdvwwggadtdyadgsedkvvevaeeevaeveee eadddeddedgdeveeeaeepyeeaterttsiatttttttesveevvrevcseqaetgpcramisrwyfdvtegkcapff yggcggnrnnfdteeycmavcgsamsgsllkttqeplardpvklpfvdpkkaaqirsgvmthlrviyermngs erlea khrermsqvmreweeaerqaknlpkadkkaviqhfqekvesleqeainerqqlvethmarveamlndrrrlaleNytal qavpprprhvfnmlkkyvraeqkdrqhtlkhfehvrmvdpkkaaqirsqvmthlrviyermngslsllynvpavaeeiqd evdellqkeqnysddvlanmiseprisygndalmpsltetkttvellpvngefslddlqpwhsfqadsvpantenevepv darpaadrglttrpgsgltnikteeisevkmdaefrhdsgyevhhqklvffaedvgsnkgaiiglmvggvviatvivitl vmlkkkqytsihhgvvevdaavtpeerhlskmqqngyenptykffeqmqn

2

- 1. Sequence in lower case letters
- 2. onSelectionChanged event



Input data

Name	Mandatory	Туре	Description
sequence	yes	string	raw text
target	yes	string	identifier of the <div> where the component must be displayed.</div>

Events

Please specify which events must be listened and which ones must be triggered by the component, and what must be the response/action must realise. Answer the following questions for each event:

What is the type of the event?

Which key was pressed during the event? Which mouse button was pressed during the event? What was the mouse position during the event? What is the response of the component? step-by-step

Name	Key/Mouse button(s)	Position	Response		
onSelectionChanged	Left + Drag	Within the text sequence	clicks, drags an the sequence. 1. Reset both colors of the 2. Change the fontSeleted background the background the final of 4. Raise an even containing name start	the bac ne entire e selected dColor a dSelecte cound, re both pe the selevent to	nd edColor for the font and espectly. ositions the initial and ected text. registered listeners
			backgroundSelectedColor for the fithe background, respectly. 3. Determine both positions the inition the final of the selected text. 4. Raise an event to registered listent containing the positions: name type description start int starting position		espectly. ositions the initial and ected text. registered listeners sitions: description starting position

Methods

Name	Arguments	Action
------	-----------	--------

highlight							Change both the
	Name	М	Туре	Description		background and the font colors between	
	start		yes	int	Initial position in the sequence		initial and final positions.
	end		yes	int	Final position in the sequence		
	fontColor		no	string	HTML color code for the font of the selected text. By default is the value of fontHighlightedColor. example: #FF0000		
	backgroundC olor		no	string	HTML color code for the background of the selected text. By default is the value of backgroundHighlightedColo r example: #FF0000		
unHighlight			<u> </u>				Reset both the
umngimgiit	Name		M Type		Description		background and the font colors between
	start		yes	int	Initial positio	n in text	initial and final positions.
	end		yes	int	Final position	ı in text	
unHighlightAll	None		Reset both the background and font colors for entire sequence.				
select							Raise the event onSelectionChanged.
	Name M Type Description						
	start	yes			int	Initial position in text	
	end yes			int	Final position in text		
unSelect	None						Reset the current selection

Glosary

Sequence: Is a string of letters representing a real or hypothetical nucleic acid molecule or strand.

FASTA: text-based format for representing either nucleotide sequences or peptide sequences, in which nucleotides or amino acids are represented using single-letter codes. The format also allows for sequence names and comments to precede the sequences.

CODATA