

# Evaluation auf BALiBASE Referenzal.

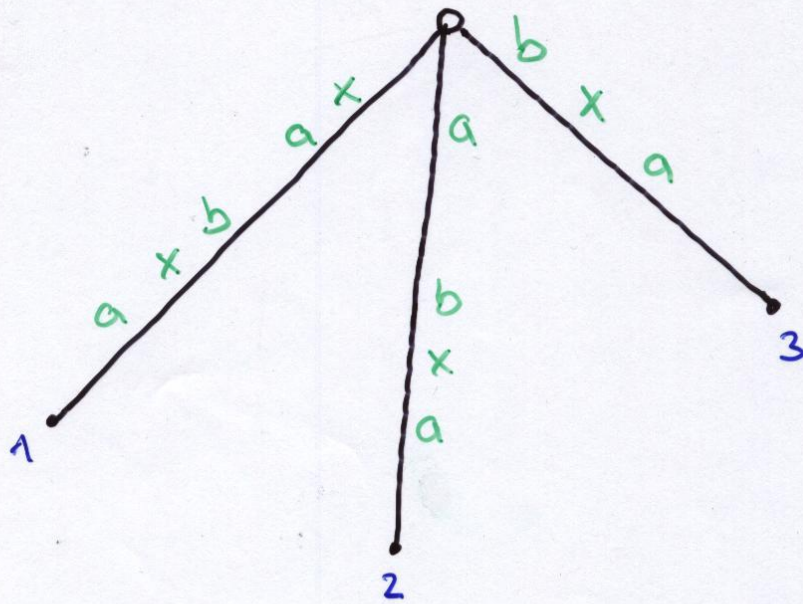
Program	Publication date	Simprot	BALiBASE										Time (s)
			RV11	RV12	RV20	RV30	RV40	RV50	all refs.				
Clustal W	Sep 1994	<u>0.78923</u>	<u>0.48326</u>	<u>0.81114</u>	<u>0.82769</u>	<u>0.70009</u>	<u>0.65208</u>	<u>0.67851</u>	<u>0.70238</u>	22.012			
Dialign2.2	Mar 1999	0.75480	0.41433	0.77499	0.80789	0.66539	0.63704	0.66255	0.66723	52.708			
T-Coffee	Sep 2000	<u>0.83629</u>	<u>0.51866</u>	<u>0.84180</u>	<u>0.84176</u>	<u>0.73867</u>	<u>0.68560</u>	<u>0.74086</u>	<u>0.73186</u>	1273.963			
POA	Mar 2002	0.75196	0.30605	0.71622	0.77491	0.62705	0.58865	0.57238	0.60754	9.025			
Mafft FFT-NS-2	Jul 2002	0.83911	0.46401	0.79774	0.83113	0.73048	0.64222	0.69748	0.70129	1			
Muscle	Aug 2004	0.83031	0.53313	0.83181	0.84411	0.73635	0.66969	0.71056	0.73110	4.426			
Mafft L-INS-1	Jan 2005	0.86545	0.56564	0.84497	<u>0.86049</u>	<u>0.77123</u>	<u>0.71307</u>	<u>0.75483</u>	0.75813	15.607			
ProbCons	Feb 2005	<u>0.86712</u>	<u>0.59117</u>	<u>0.85479</u>	0.85796	0.76782	0.69439	0.75271	<u>0.76227</u>	353.787			
Dialign-T	Mar 2005	0.77475	0.41372	0.79267	0.80824	0.67674	0.60237	0.67518	0.67024	41.467			
Kalign	Dec 2005	0.80271	0.47593	0.82048	0.82854	0.72459	0.64190	0.70384	0.70801	3.403			

Güte der Programme wahrscheinlich gemessen in SP (sum-of-pairs) im Intervall [0,1], siehe unten.

Data	Probalign	MAFFT	Probcons	MUSCLE
RV11	<u>69.3/45.3</u>	67.1/44.6	67.0/41.7	59.3/35.9
RV12	<u>94.6/86.2</u>	93.6/83.8	94.1/85.5	91.7/80.4
RV20	92.6/43.9	<u>92.7/45.3</u>	91.7/40.6	89.2/35.1
RV30	85.2/56.4	<u>85.6/56.9</u>	84.5/54.4	80.3/38.3
RV40	<u>92.2/60.3</u>	92.0/59.7	90.3/53.2	86.7/47.1
RV50	89.3/55.2	<u>90.0/56.2</u>	89.4/57.3	85.7/48.7
All	<u>87.6/58.9</u>	87.1/58.6	86.4/55.8	82.5/48.5

Güte der Programme gemessen in SP/TC in Prozent. SP (sum-of-pairs) ist Anzahl der korrekt alignierten Buchstaben, geteilt durch die Anzahl der alignierten Buchstaben im Referenzalignement. TC ist Anzahl der korrekt alignierten Spalten, geteilt durch Anzahl der Spalten im Referenzalignement.

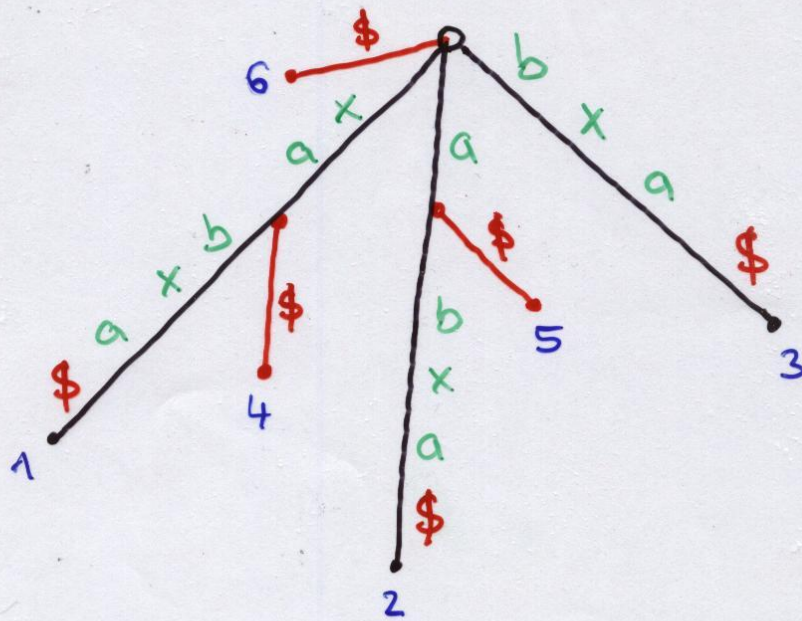
# Suffixbaum



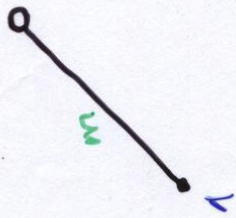
S = xabxa



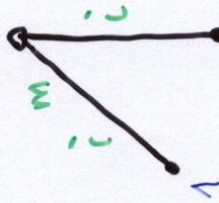
# Expliziter Suffixbaum



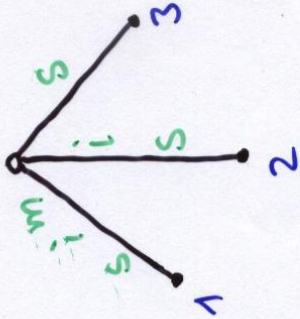
$s = xabxa\$$



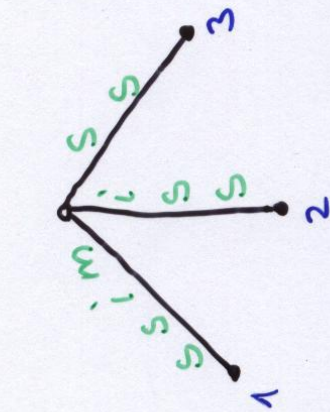
$s = m$



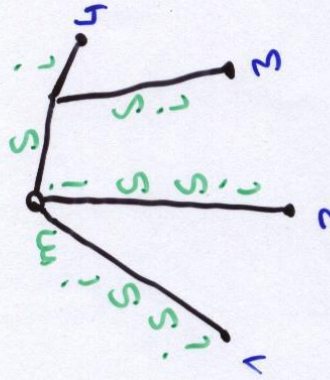
$s = mi$



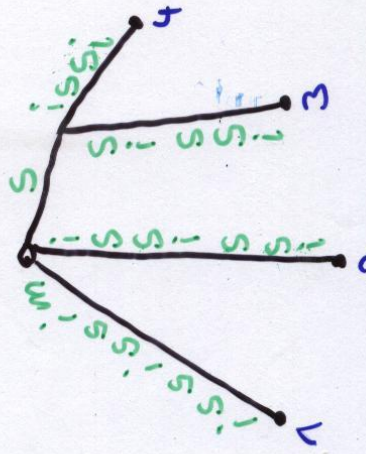
$s = mis$



$s = miss$



$s = missi$

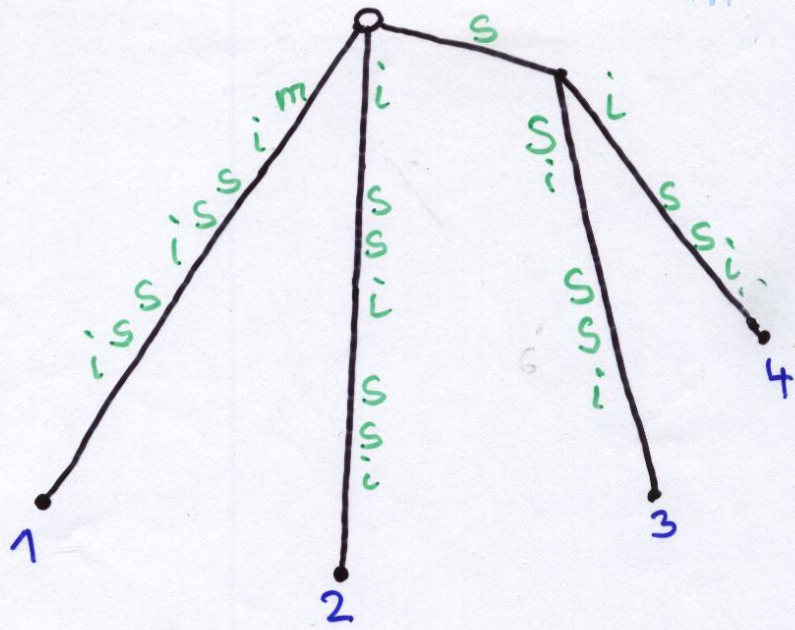


$s = mississ$

...

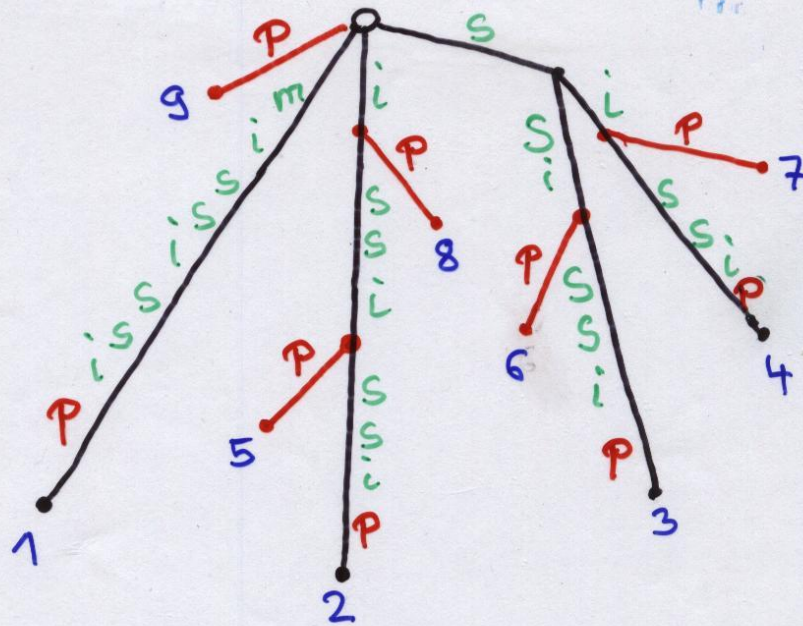
...





S = mississi

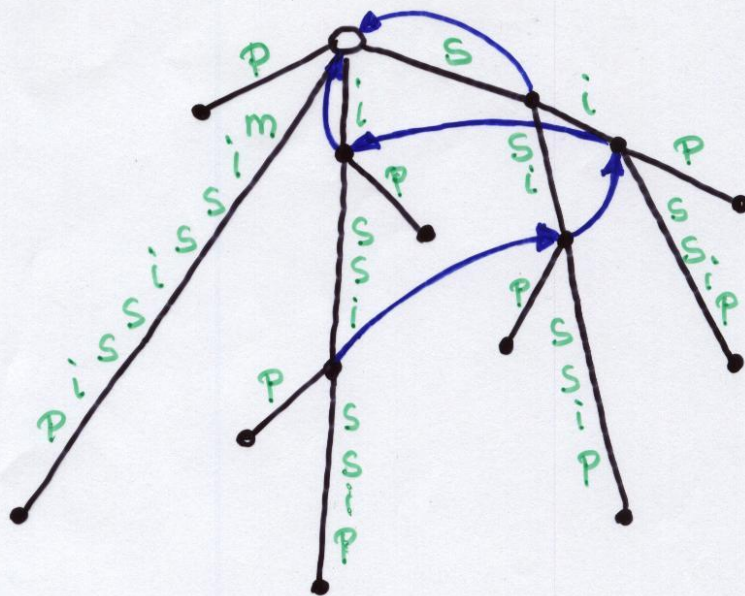
# Impliziter Suffixbaum $T_{i+1}$



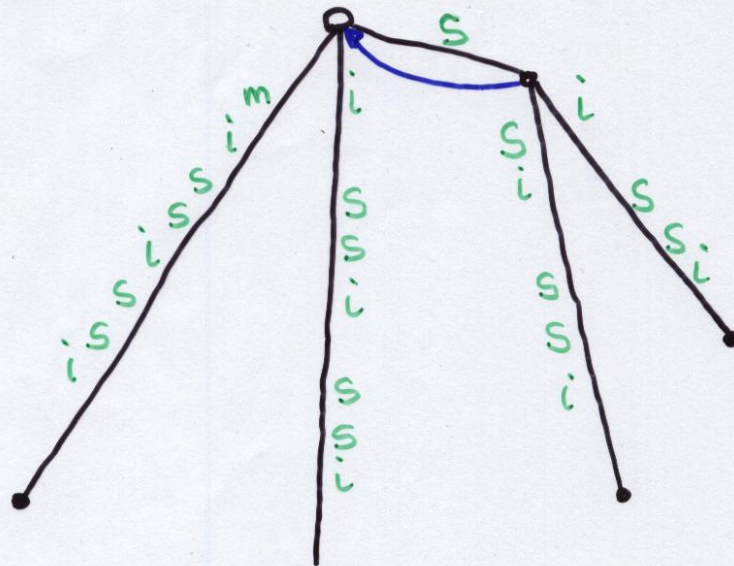
$S = \text{mississippi}$



# Suffix-Links



# Impliziter Suffixbaum $T_8$ mit Links



$S[1..8] = \text{mississi}$

$S[1..9] = \text{mississip}$