Eine Woche, ein Beispiel 1.21. complex multilinear algebra

The title comes from

http://staff.ustc.edu.cn/~wangzuoq/Courses/16F-Manifolds/Notes/Lec16.pdf

We also take the reference from "Introduction to complex geometry", written by Yalong Shi: $http://maths.nju.edu.cn/\sim yshi/BICMR_ComplexGeometry.pdf$

$$M$$
 cplx mfld, $p \in M$
e.g. $M = C^3$ $p = 0$

Notation	base field	dim	basis		name	[YS 20]
	Ć	3	9 9 basis	holomorphic	tangent vector	
TPMIR		6	Deriver or exient	real	tangent vector	TPM
(TpM)c = TMR &C		6	35' 95' or 9x' 9A	complexified	tangent vector	TPCM
Tp.M = TpA	W C	3	ð ðz; ∂ ð z ; anti-	holomorphic	tangent vector	,
Tp°M	\mathbb{C}	3	ozi anti-	- holomorphic	tangent vector	
T*M	C	3	dzi	holomorphic	1-form	$\Omega_p^{'}$
Tr*MiR €Ω'IR,p	r IR	6	d_{x_i}, d_{y_i}	real	•	·
(TpM) = TpMROR	_R C C	6	dzi, dzi or dx, dy	complexified		$T_{e}^{*C}M = A_{p}'$
T'," M = Ω';		3	dzi	(1,0) - form	1	T = A;
T° M = 10°	C	3	d=	(0,1)-form	1	T*0,1 M = Ap,1

 Ω^i Ω^{ij} sheaves on M

although our geometrical intuition of TpM is often TpMir

